

## **APPENDIX G**

### *Flood Protection Order Drawings*

Reproduced by permission of Ordnance Survey on behalf of Her Majesty's Stationery Office. (c) Crown copyright and database right 2013. All rights reserved. 100016971.

- NOTES**
1. THESE PLANS ARE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 60 AND SCHEDULE 2 OF THE FLOOD RISK MANAGEMENT (SCOTLAND) ACT 2009.
  2. THESE PLANS ARE TO BE READ IN CONJUNCTION WITH THE ALMONDBANK FLOOD PROTECTION SCHEME 2013.
  3. OPERATIONS ALONG THE LENGTH OF THE RIVER ALMOND AND THE EAST POW BURN WILL BE FINISHED WITH A SCHEME OF PLANTING AND LANDSCAPING.
  4. ALL OUTFALLS WHICH DISCHARGE TO THE RIVER ALMOND AND THE EAST POW BURN IDENTIFIED WITHIN THE OPERATIONS, WILL INCORPORATE APPROPRIATE BACK FLOW PREVENTION MEASURES.
  5. INFORMATION RECEIVED FROM STATUTORY UNDERTAKERS HAS BEEN USED TO IDENTIFY LOCATIONS OF SERVICES, EXACT LOCATIONS OF THESE SERVICES WILL BE DETERMINED DURING DETAILED DESIGN.

- LEGEND**
- REINFORCED CONCRETE FLOOD WALL CAST WITH A SUITABLE AESTHETIC FINISH
  - RETAINING WALL
  - SHEET PILE WALL
  - SHEET PILE WALL WITH CLADDING
  - KERB DRAINAGE SYSTEM
  - PROPOSED SECURITY FENCING
  - LIMITS OF LAND AFFECTED BY THE OPERATIONS AND OF LAND UPON WHICH ENTRY IS REQUIRED FOR THE PURPOSE OF CARRYING OUT THE OPERATIONS AND EXECUTING TEMPORARY WORKS.
  - PROPOSED EROSION PROTECTION (EXACT EXTENTS TO BE DETERMINED AT DETAIL DESIGN)
  - EXISTING EROSION PROTECTION
  - RAISED ROAD/ACCESS TRACK
  - SURFACE WATER DRAINAGE CHANNEL
  - CONCRETE
  - GRAVEL
  - ACCESS STEPS
  - GATE ACCESS
  - OUTFALL
  - SURFACE WATER DRAINAGE SYSTEM
  - SECONDARY SPILL OFF SYSTEM
  - EMBANKMENT (WITH IMPERMEABLE CORE WHERE REQUIRED)
  - EXISTING OUTFALL TO BE FITTED WITH NON-RETURN VALVES
  - SLUICE

- SERVICES**
- TELECOMS
  - OVERHEAD ELECTRICITY
  - UNDERGROUND ELECTRICITY
  - GAS
  - FOUL WATER
  - SURFACE WATER
  - WATER MAIN
  - COMBINED SEWER

THIS IS THE PLAN MARKED **716516/AFO/199** REFERRED TO IN THE FLOOD PROTECTION SCHEME FOR ALMONDBANK FLOOD PROTECTION SCHEME 2013

PROPER OFFICER  
(Signature)  
FOR PERTH AND KINROSS COUNCIL  
(date)

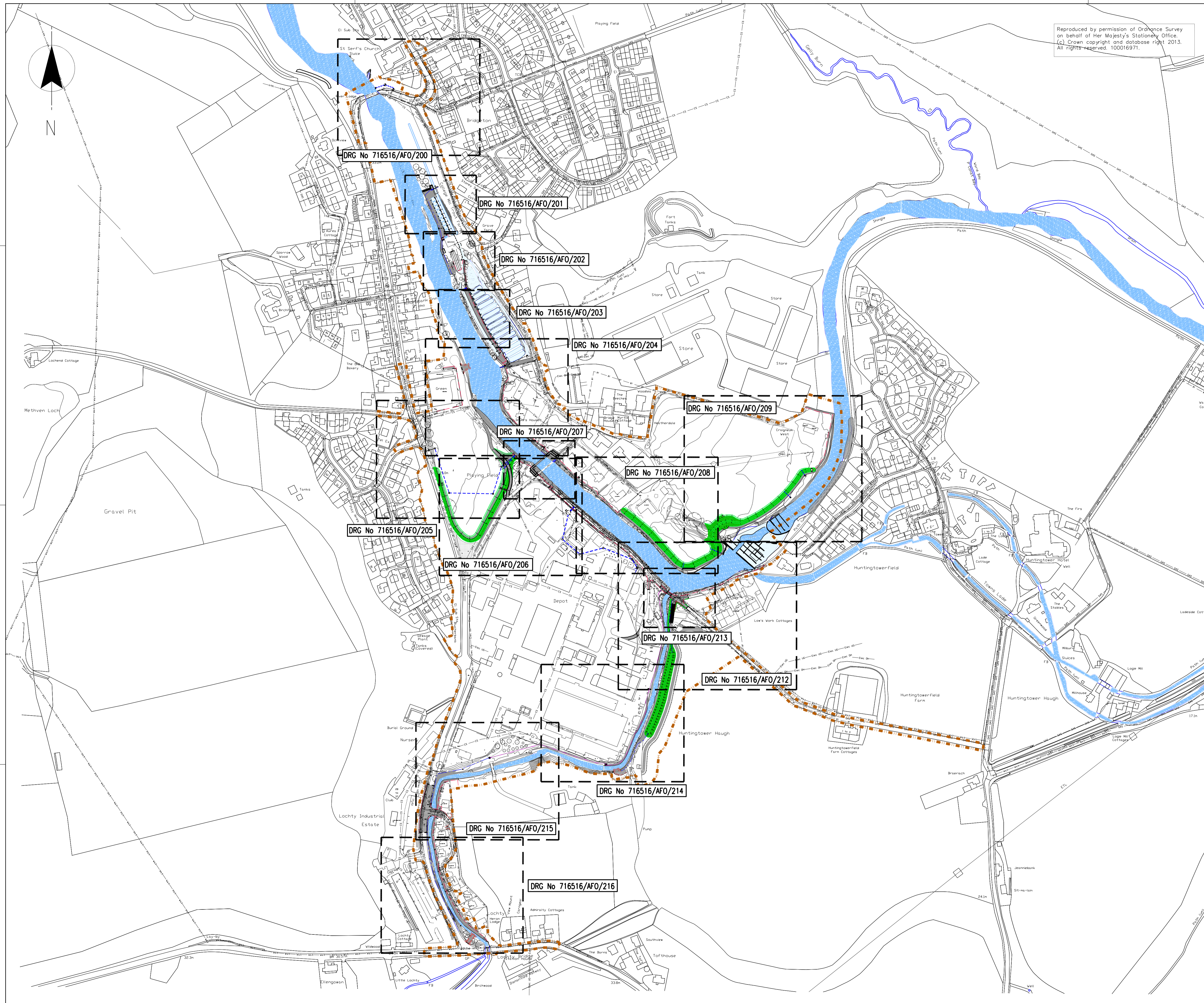
	W. DUMMERS	F. JAMBERT	N. COOKE
E CLIENT AMENDMENTS	28.06.13	28.06.13	28.06.13
D CLIENT AMENDMENTS	30.05.13	30.05.13	30.05.13
C CLIENT AMENDMENTS	07.05.13	07.05.13	07.05.13
B FOR INFORMATION	15.02.13	15.02.13	15.02.13
A FOR INFORMATION	09.05.12	09.05.12	09.05.12

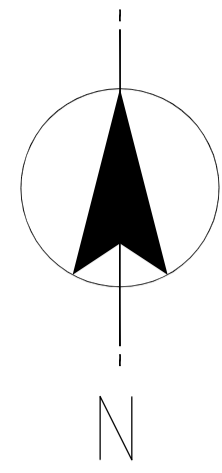
Project: ALMONDBANK FLOOD PROTECTION SCHEME  
Drawing Title: FLOOD PROTECTION OPERATIONS OVERALL LAYOUT

Scale: NOT TO SCALE  
Purpose of Issue: FLOOD PROTECTION OPERATIONS

**mouchel** building great relationships

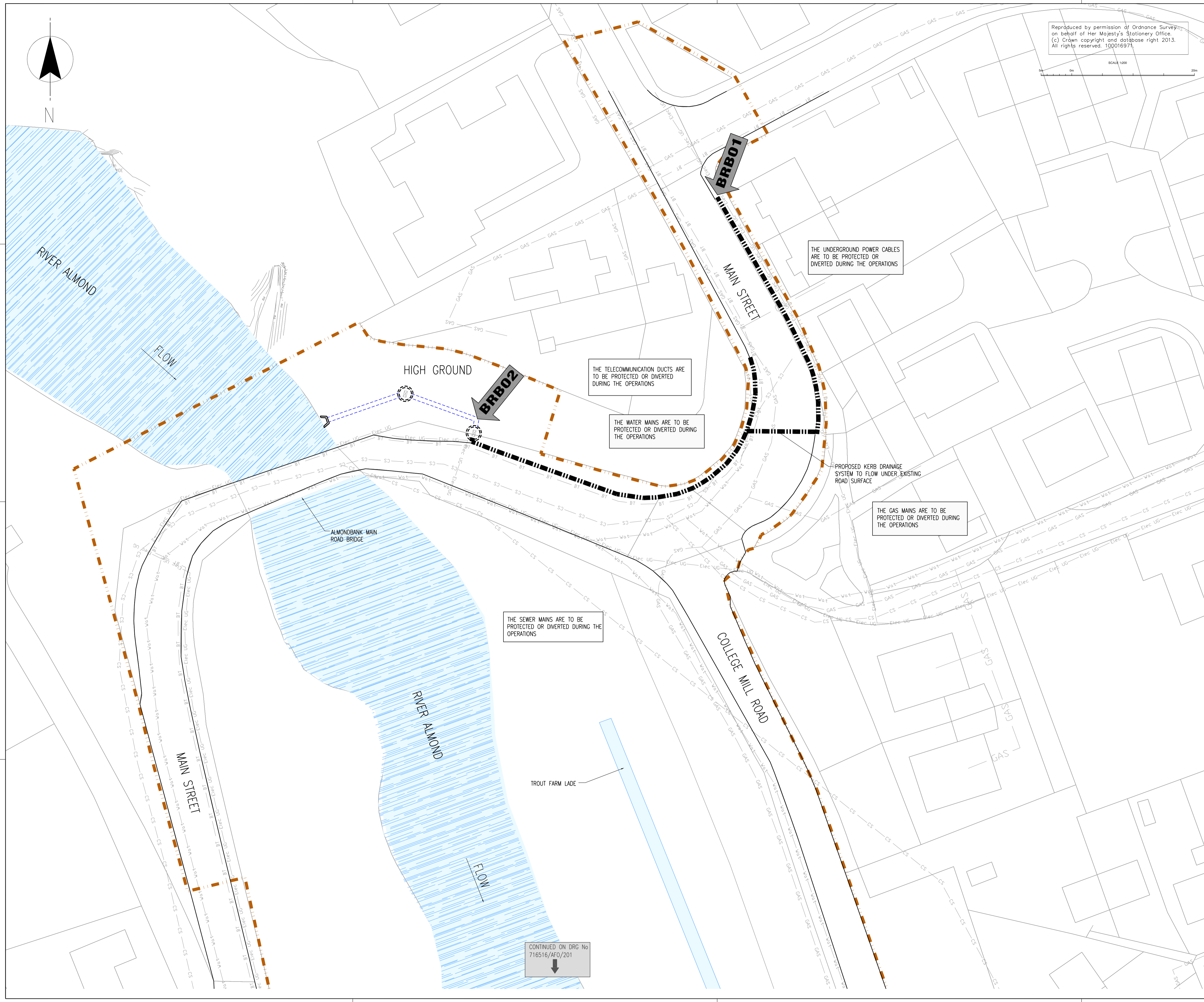
Office: LIVERPOOL | Tel No: 0151 237-4200 | Drawing No: 716516/AFO/199 | Version: E





Reproduced by permission of Ordnance Survey on behalf of Her Majesty's Stationery Office. (c) Crown copyright and database right 2013. All rights reserved. 100016971.

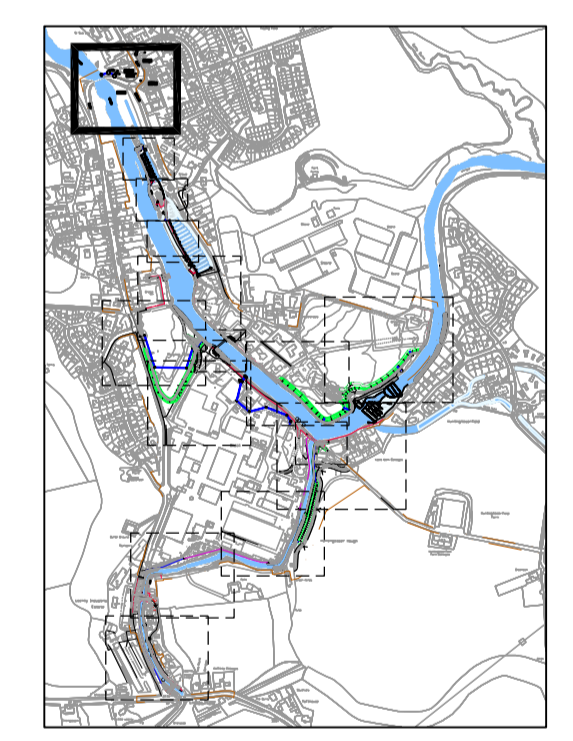
SCALE 1:200



- ### NOTES
1. THESE PLANS ARE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 60 AND SCHEDULE 2 OF THE FLOOD RISK MANAGEMENT (SCOTLAND) ACT 2009.
  2. THESE PLANS ARE TO BE READ IN CONJUNCTION WITH THE ALMONDBANK FLOOD PROTECTION SCHEME 2013.
  3. OPERATIONS ALONG THE LENGTH OF THE RIVER ALMOND AND THE EAST POW BURN WILL BE FINISHED WITH A SCHEME OF PLANTING AND LANDSCAPING.
  4. ALL OUTFALLS WHICH DISCHARGE TO THE RIVER ALMOND AND THE EAST POW BURN IDENTIFIED WITHIN THE OPERATIONS, WILL INCORPORATE APPROPRIATE BACK FLOW PREVENTION MEASURES.
  5. INFORMATION RECEIVED FROM STATUTORY UNDERTAKERS HAS BEEN USED TO IDENTIFY LOCATIONS OF SERVICES, EXACT LOCATIONS OF THESE SERVICES WILL BE DETERMINED DURING DETAILED DESIGN.

- ### LEGEND
- REINFORCED CONCRETE FLOOD WALL CAST WITH A SUITABLE AESTHETIC FINISH
  - RETAINING WALL
  - SHEET PILE WALL
  - SHEET PILE WALL WITH CLADDING
  - KERB DRAINAGE SYSTEM
  - PROPOSED SECURITY FENCING
  - LIMITS OF LAND AFFECTED BY THE OPERATIONS AND OF LAND UPON WHICH ENTRY IS REQUIRED FOR THE PURPOSE OF CARRYING OUT THE OPERATIONS AND EXECUTING TEMPORARY WORKS.
  - PROPOSED EROSION PROTECTION (EXACT EXTENTS TO BE DETERMINED AT DETAIL DESIGN)
  - EXISTING EROSION PROTECTION
  - RAISED ROAD/ACCESS TRACK
  - SURFACE WATER DRAINAGE CHANNEL
  - CONCRETE
  - GRAVEL
  - EMBANKMENT (WITH IMPERMEABLE CORE WHERE REQUIRED)
  - OUTFALL
  - SURFACE WATER DRAINAGE SYSTEM
  - SECONDARY SPILL OFF SYSTEM
  - EXISTING OUTFALL TO BE FITTED WITH NON-RETURN VALVES
  - ACCESS STEPS
  - SLUICE
  - SECTION MARKERS
  - START LOCATION OF REFERENCED OPERATION
  - GATE ACCESS

- ### SERVICES
- BT TELECOMS
  - OVERHEAD ELECTRICITY
  - UNDERGROUND ELECTRICITY
  - GAS
  - FOUL WATER
  - SURFACE WATER
  - WATER MAIN
  - COMBINED SEWER



THIS IS THE PLAN MARKED **716516/AFO/200** REFERRED TO IN THE FLOOD PROTECTION SCHEME FOR ALMONDBANK FLOOD PROTECTION SCHEME 2013

PROPER OFFICER

(Signature)

FOR PERTH AND KINROSS COUNCIL

(date)

Version	Amendment	Checked Date	Approved Date
E	CLIENT AMENDMENTS	W.DUMMERS 28.06.13	P.JAMBERT 28.06.13
D	CLIENT AMENDMENTS	S.MICCOLLOCH 30.05.13	P.JAMBERT 30.05.13
C	CLIENT AMENDMENTS	S.MICCOLLOCH 07.05.13	P.JAMBERT 07.05.13
B	FOR INFORMATION	W.DUMMERS 15.02.13	P.JAMBERT 15.02.13
A	FOR INFORMATION	S.MICCOLLOCH 30.04.12	W.DUMMERS 08.05.12

Project: ALMONDBANK FLOOD PROTECTION SCHEME

Client: PERTH & KINROSS COUNCIL

Drawing Title: FLOOD PROTECTION OPERATIONS SHEET 1 OF 15 COMBINED KERB & DRAINAGE SYSTEM

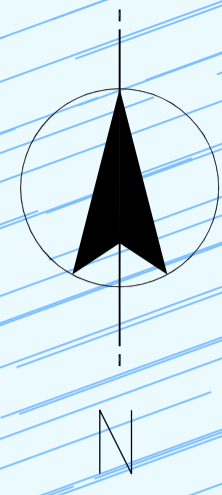
**mouchel** building great relationships

Scale (if A3 size): 1:200

Purpose of Issue: FLOOD PROTECTION OPERATIONS

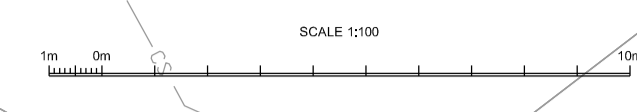
Office: LIVERPOOL | Tel No: 0151 237-4200 | Drawing No: 716516/AFO/200 | Version: E

CONTINUED ON DRG No 716516/AFO/201



CONTINUED ON DRG No 716516/AFO/200

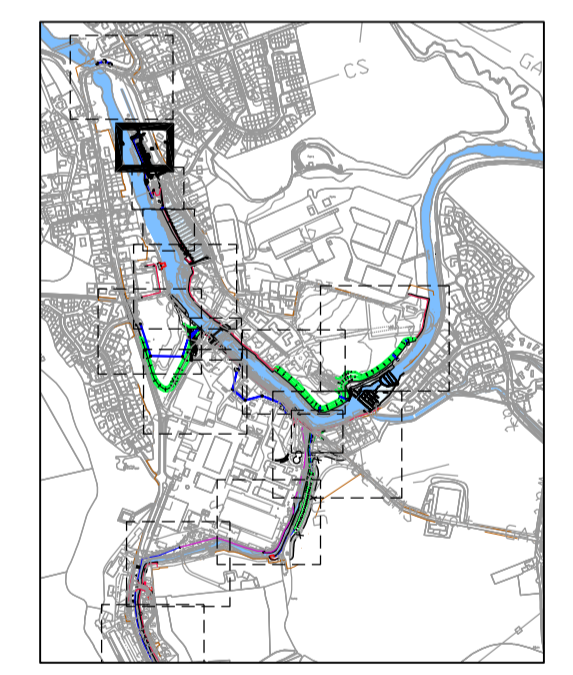
Reproduced by permission of Ordnance Survey on behalf of Her Majesty's Stationary Office. (c) Crown copyright and database right 2013. All rights reserved. 100016971.



- NOTES**
1. THESE PLANS ARE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 60 AND SCHEDULE 2 OF THE FLOOD RISK MANAGEMENT (SCOTLAND) ACT 2009.
  2. THESE PLANS ARE TO BE READ IN CONJUNCTION WITH THE ALMONDBANK FLOOD PROTECTION SCHEME 2013.
  3. OPERATIONS ALONG THE LENGTH OF THE RIVER ALMOND AND THE EAST POW BURN WILL BE FINISHED WITH A SCHEME OF PLANTING AND LANDSCAPING.
  4. ALL OUTFALLS WHICH DISCHARGE TO THE RIVER ALMOND AND THE EAST POW BURN IDENTIFIED WITHIN THE OPERATIONS, WILL INCORPORATE APPROPRIATE BACK FLOW PREVENTION MEASURES.
  5. INFORMATION RECEIVED FROM STATUTORY UNDERTAKERS HAS BEEN USED TO IDENTIFY LOCATIONS OF SERVICES, EXACT LOCATIONS OF THESE SERVICES WILL BE DETERMINED DURING DETAILED DESIGN.

- LEGEND**
- REINFORCED CONCRETE FLOOD WALL CAST WITH A SUITABLE AESTHETIC FINISH
  - RETAINING WALL
  - SHEET PILE WALL
  - SHEET PILE WALL WITH CLADDING
  - KERB DRAINAGE SYSTEM
  - PROPOSED SECURITY FENCING
  - LIMITS OF LAND AFFECTED BY THE OPERATIONS AND OF LAND UPON WHICH ENTRY IS REQUIRED FOR THE PURPOSE OF CARRYING OUT THE OPERATIONS AND EXECUTING TEMPORARY WORKS.
  - PROPOSED EROSION PROTECTION (EXACT EXTENTS TO BE DETERMINED AT DETAIL DESIGN)
  - EXISTING EROSION PROTECTION
  - RAISED ROAD/ACCESS TRACK
  - SURFACE WATER DRAINAGE CHANNEL
  - CONCRETE
  - GRAVEL
  - OUTFALL
  - SURFACE WATER DRAINAGE SYSTEM
  - SECONDARY SPILL OFF SYSTEM
  - EMBANKMENT (WITH IMPERMEABLE CORE WHERE REQUIRED)
  - EXISTING OUTFALL TO BE FITTED WITH NON-RETURN VALVES
  - ACCESS STEPS
  - SLUICE
  - SECTION MARKERS
  - START LOCATION OF REFERENCED OPERATION
  - GATE ACCESS

- SERVICES**
- TELECOMS
  - OVERHEAD ELECTRICITY
  - UNDERGROUND ELECTRICITY
  - GAS
  - FOUL WATER
  - SURFACE WATER
  - WATER MAIN
  - COMBINED SEWER



THIS IS THE PLAN MARKED 716516/AFO/201 REFERRED TO IN THE FLOOD PROTECTION SCHEME FOR ALMONDBANK FLOOD PROTECTION SCHEME 2013

PROPER OFFICER

(Signature)

FOR PERTH AND KINROSS COUNCIL

(date)

Version	Amendment	Drawn Date	Checked Date	Approved Date
E	CLIENT AMENDMENTS	W.DWYERS 28.08.13	P.JAMBERT 28.08.13	N.COOTE 28.08.13
D	CLIENT AMENDMENTS	S.MACALLOCH 30.05.13	P.JAMBERT 30.05.13	N.COOTE 30.05.13
C	CLIENT AMENDMENTS	S.MACALLOCH 07.05.13	P.JAMBERT 07.05.13	N.COOTE 07.05.13
B	FOR INFORMATION	W.DWYERS 15.02.13	P.JAMBERT 15.02.13	N.COOTE 15.02.13
A	FOR INFORMATION	S.MACALLOCH 30.04.12	W.DWYERS 08.05.12	N.COOTE 08.05.12

Project: ALMONDBANK FLOOD PROTECTION SCHEME

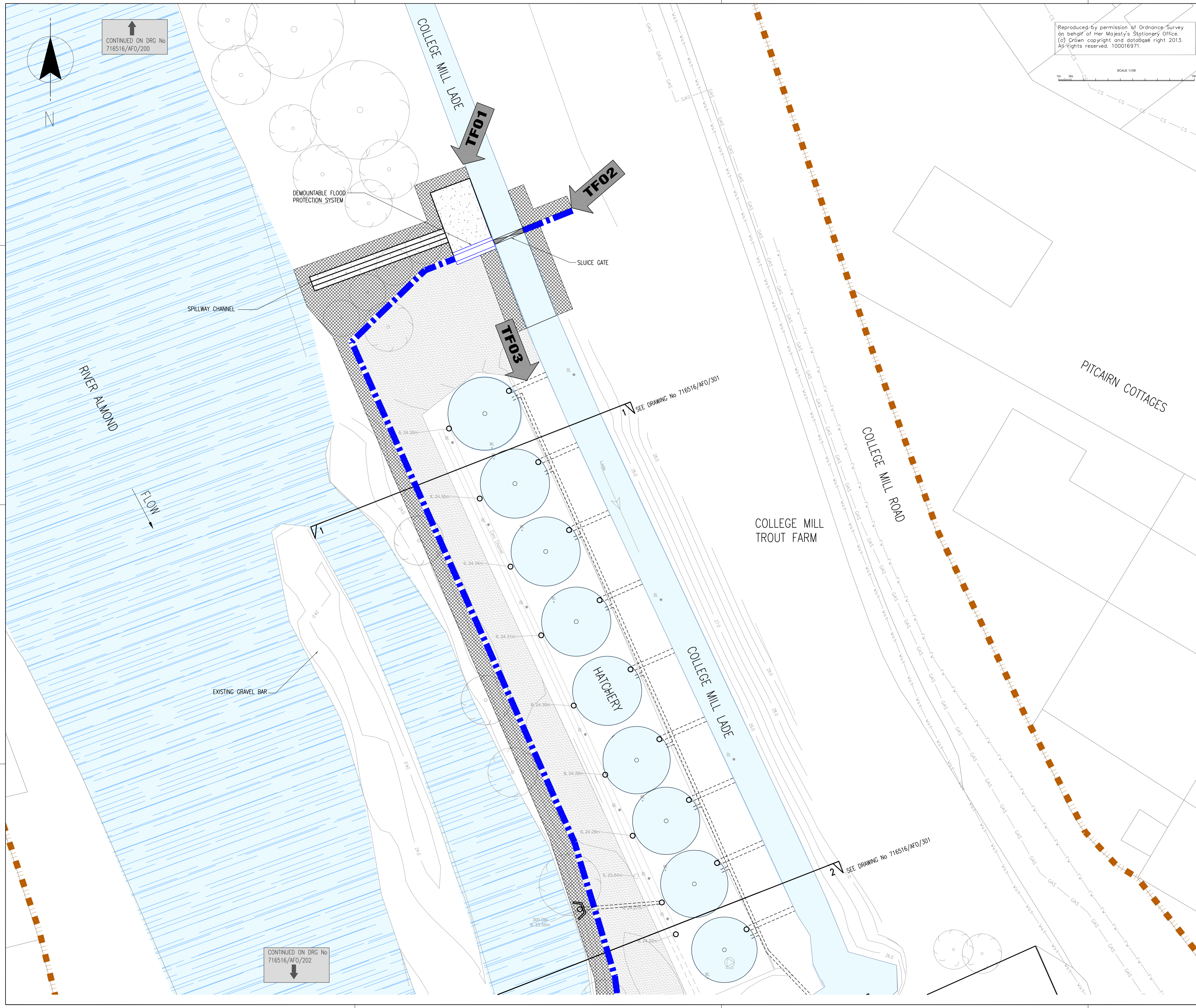
Drawing Title: FLOOD PROTECTION OPERATIONS SHEET 2 OF 15 COLLEGE MILL TROUT FARM

**mouchel**

Scale (if all sizes): 1:100

Purpose of Issue: FLOOD PROTECTION OPERATIONS

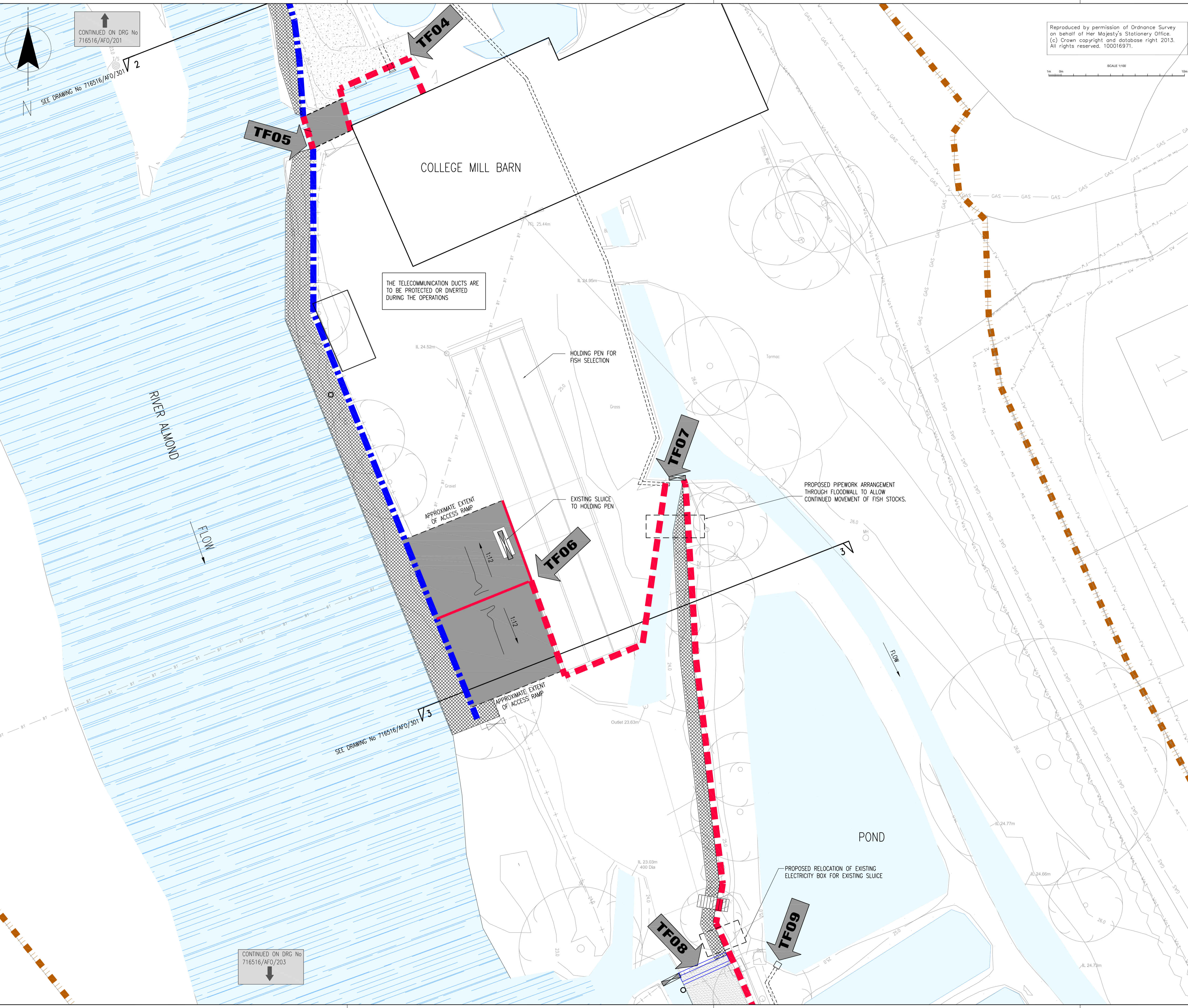
Office: LIVERPOOL	Tel No: 0151 237-4200	Drawing No: 716516/AFO/201	Version: E
-------------------	-----------------------	----------------------------	------------



CONTINUED ON DRG No 716516/AFO/202

1 SEE DRAWING No 716516/AFO/301

2 SEE DRAWING No 716516/AFO/301



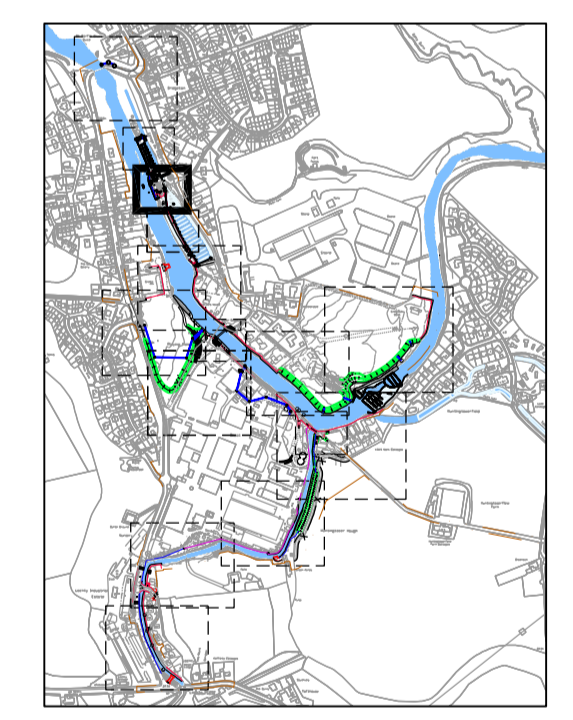
Reproduced by permission of Ordnance Survey on behalf of Her Majesty's Stationary Office, (c) Crown copyright and database right 2013. All rights reserved. 100016971.

SCALE 1:100

- ### NOTES
- THESE PLANS ARE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 60 AND SCHEDULE 2 OF THE FLOOD RISK MANAGEMENT (SCOTLAND) ACT 2009.
  - THESE PLANS ARE TO BE READ IN CONJUNCTION WITH THE ALMONDBANK FLOOD PROTECTION SCHEME 2013.
  - OPERATIONS ALONG THE LENGTH OF THE RIVER ALMOND AND THE EAST POW BURN WILL BE FINISHED WITH A SCHEME OF PLANTING AND LANDSCAPING.
  - ALL OUTFALLS WHICH DISCHARGE TO THE RIVER ALMOND AND THE EAST POW BURN IDENTIFIED WITHIN THE OPERATIONS, WILL INCORPORATE APPROPRIATE BACK FLOW PREVENTION MEASURES.
  - INFORMATION RECEIVED FROM STATUTORY UNDERTAKERS HAS BEEN USED TO IDENTIFY LOCATIONS OF SERVICES, EXACT LOCATIONS OF THESE SERVICES WILL BE DETERMINED DURING DETAILED DESIGN.

- ### LEGEND
- REINFORCED CONCRETE FLOOD WALL CAST WITH A SUITABLE AESTHETIC FINISH
  - RETAINING WALL
  - SHEET PILE WALL
  - SHEET PILE WALL WITH CLADDING
  - KERB DRAINAGE SYSTEM
  - PROPOSED SECURITY FENCING
  - LIMITS OF LAND AFFECTED BY THE OPERATIONS AND OF LAND UPON WHICH ENTRY IS REQUIRED FOR THE PURPOSE OF CARRYING OUT THE OPERATIONS AND EXECUTING TEMPORARY WORKS.
  - PROPOSED EROSION PROTECTION (EXACT EXTENTS TO BE DETERMINED AT DETAIL DESIGN)
  - EXISTING EROSION PROTECTION
  - RAISED ROAD/ACCESS TRACK
  - SURFACE WATER DRAINAGE CHANNEL
  - CONCRETE
  - GRAVEL
  - EMBANKMENT (WITH IMPERMEABLE CORE WHERE REQUIRED)
  - OUTFALL
  - SURFACE WATER DRAINAGE SYSTEM
  - SECONDARY SPILL OFF SYSTEM
  - EXISTING OUTFALL TO BE FITTED WITH NON-RETURN VALVES
  - ACCESS STEPS
  - SLUICE

- ### SERVICES
- BT TELECOMS
  - OVERHEAD ELECTRICITY
  - UNDERGROUND ELECTRICITY
  - GAS
  - FOUL WATER
  - SURFACE WATER
  - WATER MAIN
  - COMBINED SEWER



THIS IS THE PLAN MARKED **716516/AFO/202** REFERRED TO IN THE FLOOD PROTECTION SCHEME FOR ALMONDBANK FLOOD PROTECTION SCHEME 2013

PROPER OFFICER

(Signature)

FOR PERTH AND KINROSS COUNCIL

(date)

Version	Amendment	Drawn Date	Checked Date	Approved Date
E	CLIENT AMENDMENTS	W.D.McMILLAN 28.08.13	P.JAMBERT 28.08.13	N.COOPER 28.08.13
D	CLIENT AMENDMENTS	S.McCOLLUM 30.05.13	P.JAMBERT 30.05.13	N.COOPER 30.05.13
C	CLIENT AMENDMENTS	S.McCOLLUM 07.05.13	P.JAMBERT 07.05.13	N.COOPER 07.05.13
B	FOR INFORMATION	W.D.McMILLAN 15.02.13	P.JAMBERT 15.02.13	N.COOPER 15.02.13
A	FOR INFORMATION	S.McCOLLUM 30.04.12	W.D.McMILLAN 08.05.12	N.COOPER 08.05.12

Project: ALMONDBANK FLOOD PROTECTION SCHEME

Client: PERTH & KINROSS COUNCIL

Drawing Title: FLOOD PROTECTION OPERATIONS SHEET 3 OF 15 COLLEGE MILL TROUT FARM

Scale: 1:100

Purpose of Issue: FLOOD PROTECTION OPERATIONS

Office: LIVERPOOL

Tel No: 0151 237-4200

Drawing No: 716516/AFO/202

Version: E

CONTINUED ON DRG No 716516/AFO/201

SEE DRAWING No 716516/AFO/301

CONTINUED ON DRG No 716516/AFO/203

THE TELECOMMUNICATION DUCTS ARE TO BE PROTECTED OR DIVERTED DURING THE OPERATIONS

COLLEGE MILL BARN

RIVER ALMOND

FLOW

POND

PROPOSED PIPEWORK ARRANGEMENT THROUGH FLOODWALL TO ALLOW CONTINUED MOVEMENT OF FISH STOCKS.

EXISTING SLUICE TO HOLDING PEN

APPROXIMATE EXTENT OF ACCESS RAMP

APPROXIMATE EXTENT OF ACCESS RAMP

PROPOSED RELOCATION OF EXISTING ELECTRICITY BOX FOR EXISTING SLUICE

HOLDING PEN FOR FISH SELECTION

SEE DRAWING No 716516/AFO/301

TF04

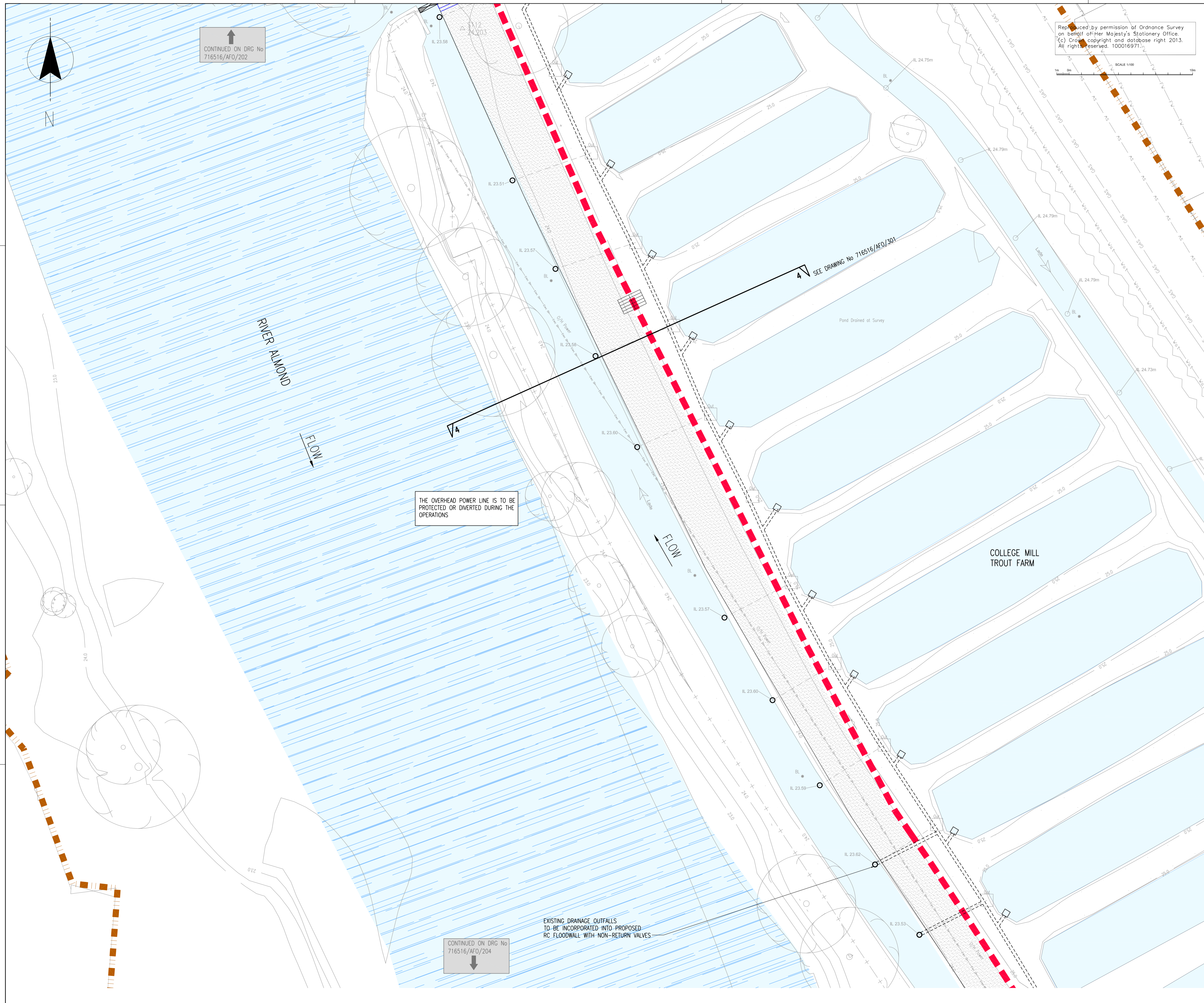
TF05

TF07

TF06

TF08

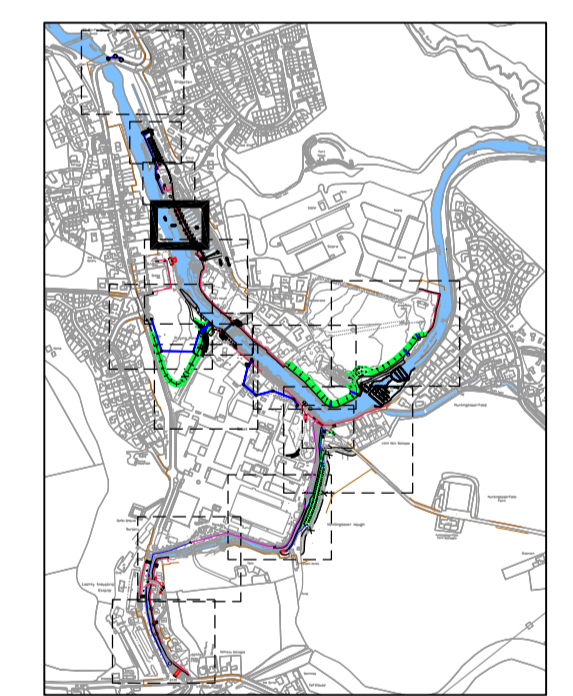
TF09



- ### NOTES
- THESE PLANS ARE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 60 AND SCHEDULE 2 OF THE FLOOD RISK MANAGEMENT (SCOTLAND) ACT 2009.
  - THESE PLANS ARE TO BE READ IN CONJUNCTION WITH THE ALMONDBANK FLOOD PROTECTION SCHEME 2013.
  - OPERATIONS ALONG THE LENGTH OF THE RIVER ALMOND AND THE EAST POW BURN WILL BE FINISHED WITH A SCHEME OF PLANTING AND LANDSCAPING.
  - ALL OUTFALLS WHICH DISCHARGE TO THE RIVER ALMOND AND THE EAST POW BURN IDENTIFIED WITHIN THE OPERATIONS, WILL INCORPORATE APPROPRIATE BACK FLOW PREVENTION MEASURES.
  - INFORMATION RECEIVED FROM STATUTORY UNDERTAKERS HAS BEEN USED TO IDENTIFY LOCATIONS OF SERVICES, EXACT LOCATIONS OF THESE SERVICES WILL BE DETERMINED DURING DETAILED DESIGN.

- ### LEGEND
- REINFORCED CONCRETE FLOOD WALL CAST WITH A SUITABLE AESTHETIC FINISH
  - RETAINING WALL
  - SHEET PILE WALL
  - SHEET PILE WALL WITH CLADDING
  - KERB DRAINAGE SYSTEM
  - PROPOSED SECURITY FENCING
  - LIMITS OF LAND AFFECTED BY THE OPERATIONS AND OF LAND UPON WHICH ENTRY IS REQUIRED FOR THE PURPOSE OF CARRYING OUT THE OPERATIONS AND EXECUTING TEMPORARY WORKS.
  - PROPOSED EROSION PROTECTION (EXACT EXTENTS TO BE DETERMINED AT DETAIL DESIGN)
  - EXISTING EROSION PROTECTION
  - RAISED ROAD/ACCESS TRACK
  - SURFACE WATER DRAINAGE CHANNEL
  - CONCRETE
  - GRAVEL
  - EMBANKMENT (WITH IMPERMEABLE CORE WHERE REQUIRED)
  - OUTFALL
  - SURFACE WATER DRAINAGE SYSTEM
  - SECONDARY SPILL OFF SYSTEM
  - EXISTING OUTFALL TO BE FITTED WITH NON-RETURN VALVES
  - ACCESS STEPS
  - SLUICE
  - SECTION MARKERS
  - START LOCATION OF REFERENCED OPERATION
  - GATE ACCESS

- ### SERVICES
- TELECOMS
  - OVERHEAD ELECTRICITY
  - UNDERGROUND ELECTRICITY
  - GAS
  - FOUL WATER
  - SURFACE WATER
  - WATER MAIN
  - COMBINED SEWER



THIS IS THE PLAN MARKED **716516/AF0/203** REFERRED TO IN THE FLOOD PROTECTION SCHEME FOR ALMONDBANK FLOOD PROTECTION SCHEME 2013

PROPER OFFICER

(Signature)

FOR PERTH AND KINROSS COUNCIL

(date)

	W.CHAMBERS	P.JAMBERT	N.COOTE
E CLIENT AMENDMENTS	28.08.13	28.08.13	28.08.13
D CLIENT AMENDMENTS	30.05.13	30.05.13	30.05.13
C CLIENT AMENDMENTS	07.05.13	07.05.13	07.05.13
B FOR INFORMATION	15.02.13	15.02.13	15.02.13
A FOR INFORMATION	30.04.12	08.05.12	08.05.12

Version: \_\_\_\_\_ Amendment: \_\_\_\_\_

Project: ALMONDBANK FLOOD PROTECTION SCHEME

Drawing Title: FLOOD PROTECTION OPERATIONS SHEET 4 OF 15 COLLEGE MILL TROUT FARM

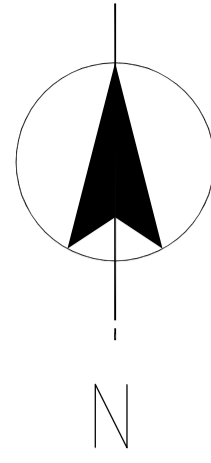
Scale (at A0 size): 1:100

Purpose of Issue: FLOOD PROTECTION OPERATIONS

Office: LIVERPOOL | Tel No: 0151 237 4200 | Drawing No: 716516/AF0/203 | Version: E

**mouchel** building great relationships

PERTH & KINROSS COUNCIL



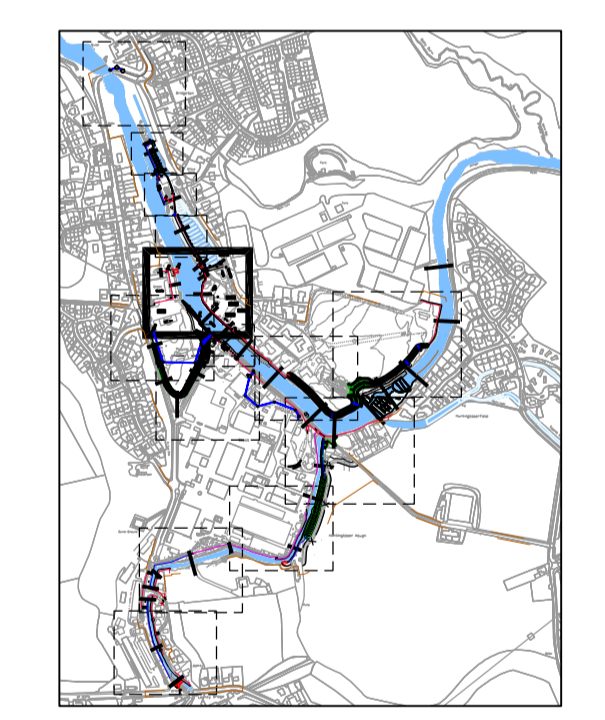
CONTINUED ON DRG No 716516/AFO/203

Reproduced by permission of Ordnance Survey on behalf of Her Majesty's Stationary Office. (c) Crown copyright and database right 2013. All rights reserved. 100016971.

- NOTES**
- THESE PLANS ARE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 60 AND SCHEDULE 2 OF THE FLOOD RISK MANAGEMENT (SCOTLAND) ACT 2009.
  - THESE PLANS ARE TO BE READ IN CONJUNCTION WITH THE ALMONDBANK FLOOD PROTECTION SCHEME 2013.
  - OPERATIONS ALONG THE LENGTH OF THE RIVER ALMOND AND THE EAST POW BURN WILL BE FINISHED WITH A SCHEME OF PLANTING AND LANDSCAPING. ALL OUTFALLS WHICH DISCHARGE TO THE RIVER ALMOND AND THE EAST POW BURN IDENTIFIED WITHIN THE OPERATIONS, WILL INCORPORATE APPROPRIATE BACK FLOW PREVENTION MEASURES.
  - INFORMATION RECEIVED FROM STATUTORY UNDERTAKERS HAS BEEN USED TO IDENTIFY LOCATIONS OF SERVICES, EXACT LOCATIONS OF THESE SERVICES WILL BE DETERMINED DURING DETAILED DESIGN.

- LEGEND**
- REINFORCED CONCRETE FLOOD WALL CAST WITH A SUITABLE AESTHETIC FINISH
  - RETAINING WALL
  - SHEET PILE WALL
  - SHEET PILE WALL WITH CLADDING
  - KERB DRAINAGE SYSTEM
  - PROPOSED SECURITY FENCING
  - LIMITS OF LAND AFFECTED BY THE OPERATIONS AND OF LAND UPON WHICH ENTRY IS REQUIRED FOR THE PURPOSE OF CARRYING OUT THE OPERATIONS AND EXECUTING TEMPORARY WORKS.
  - PROPOSED EROSION PROTECTION (EXACT EXTENTS TO BE DETERMINED AT DETAIL DESIGN)
  - EXISTING EROSION PROTECTION
  - RAISED ROAD/ACCESS TRACK
  - SURFACE WATER DRAINAGE CHANNEL
  - CONCRETE
  - GRAVEL
  - EMBANKMENT (WITH IMPERMEABLE CORE WHERE REQUIRED)
  - EXISTING OUTFALL TO BE FITTED WITH NON-RETURN VALVES
  - ACCESS STEPS
  - SLUICE
  - OUTFALL
  - SURFACE WATER DRAINAGE SYSTEM
  - SECONDARY SPILL OFF SYSTEM
  - SECTION MARKERS
  - EXISTING OUTFALL TO BE FITTED WITH NON-RETURN VALVES
  - ACCESS STEPS
  - SLUICE
  - START LOCATION OF REFERENCED OPERATION
  - GATE ACCESS

- SERVICES**
- TELECOMS
  - OVERHEAD ELECTRICITY
  - UNDERGROUND ELECTRICITY
  - GAS
  - FOUL WATER
  - SURFACE WATER
  - WATER MAIN
  - COMBINED SEWER



THIS IS THE PLAN MARKED 716516/AFO/204 REFERRED TO IN THE FLOOD PROTECTION SCHEME FOR ALMONDBANK FLOOD PROTECTION SCHEME 2013

PROPER OFFICER

(Signature)

FOR PERTH AND KINROSS COUNCIL

(date)

	W. CHAMBERS	J. MUMBERT	N. COOKE
E CLIENT AMENDMENTS	28.08.13	28.08.13	28.08.13
D CLIENT AMENDMENTS	30.05.13	30.05.13	30.05.13
C CLIENT AMENDMENTS	07.05.13	07.05.13	07.05.13
B FOR INFORMATION	15.02.13	15.02.13	15.02.13
A FOR INFORMATION	30.04.12	08.05.12	08.05.12

Version: \_\_\_\_\_ Amendment: \_\_\_\_\_

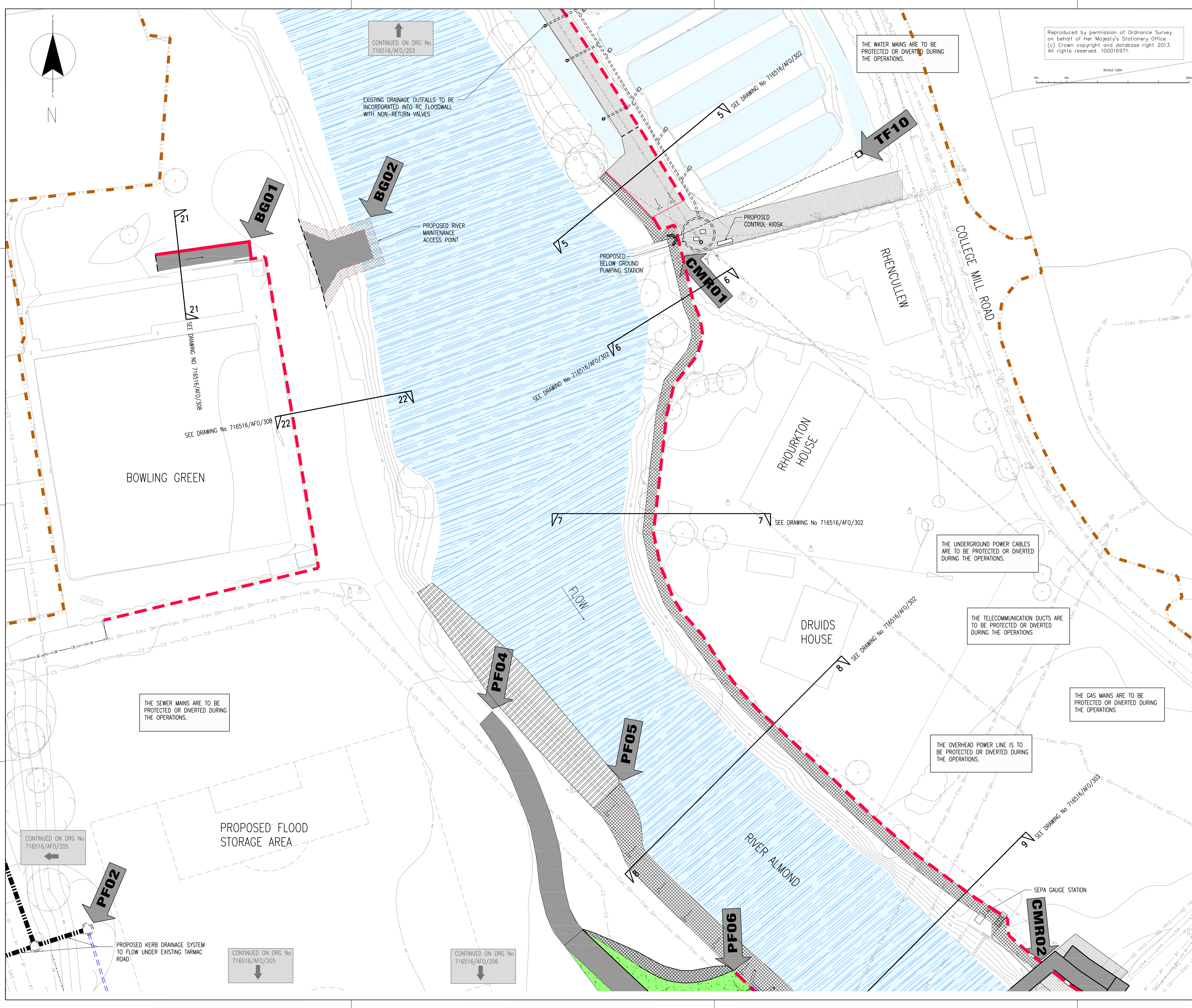
Project: ALMONDBANK FLOOD PROTECTION SCHEME

Client: PERTH & KINROSS COUNCIL

Drawing Title: FLOOD PROTECTION OPERATIONS SHEET 5 OF 15 TROUT FARM, BOWLING GREEN AND PLAYING FIELD FLOOD STORAGE AREA

Scale: 1:200

Purpose of Issue: FLOOD PROTECTION OPERATIONS

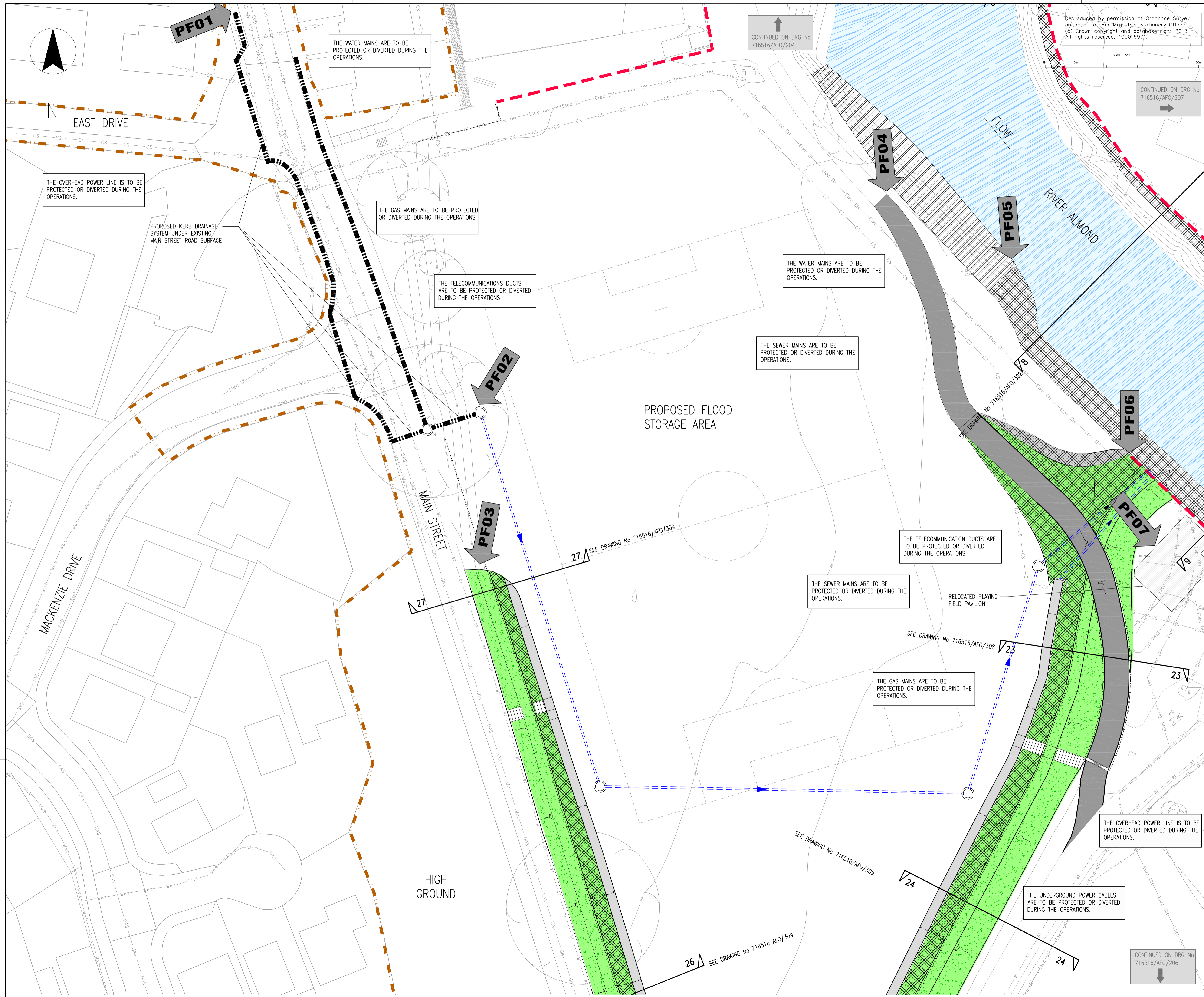


CONTINUED ON DRG No 716516/AFO/205

CONTINUED ON DRG No 716516/AFO/205

CONTINUED ON DRG No 716516/AFO/206

CONTINUED ON DRG No 716516/AFO/203



Reproduced by permission of Ordnance Survey on behalf of Her Majesty's Stationery Office. (c) Crown copyright and database right 2013. All rights reserved. 100016971.

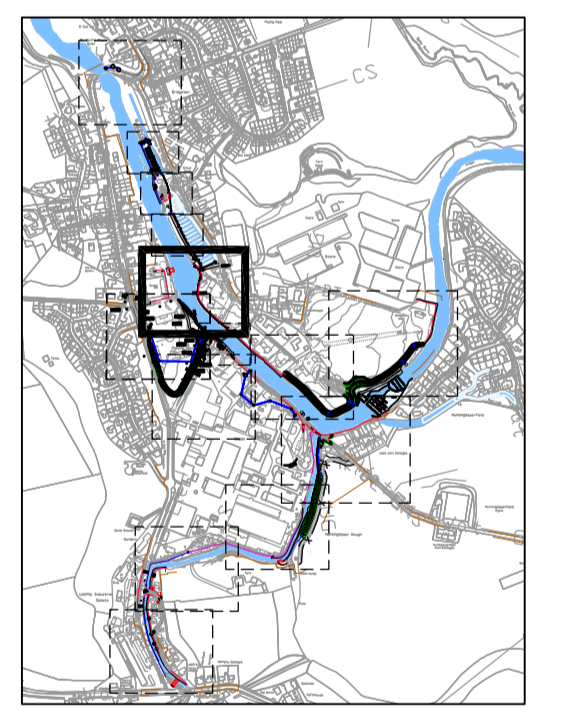
SCALE 1:200

CONTINUED ON DRG No 716516/AFO/207

- ### NOTES
- THESE PLANS ARE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 60 AND SCHEDULE 2 OF THE FLOOD RISK MANAGEMENT (SCOTLAND) ACT 2009.
  - THESE PLANS ARE TO BE READ IN CONJUNCTION WITH THE ALMONDBANK FLOOD PROTECTION SCHEME 2013.
  - OPERATIONS ALONG THE LENGTH OF THE RIVER ALMOND AND THE EAST POW BURN WILL BE FINISHED WITH A SCHEME OF PLANTING AND LANDSCAPING.
  - ALL OUTFALLS WHICH DISCHARGE TO THE RIVER ALMOND AND THE EAST POW BURN IDENTIFIED WITHIN THE OPERATIONS, WILL INCORPORATE APPROPRIATE BACK FLOW PREVENTION MEASURES.
  - INFORMATION RECEIVED FROM STATUTORY UNDERTAKERS HAS BEEN USED TO IDENTIFY LOCATIONS OF SERVICES, EXACT LOCATIONS OF THESE SERVICES WILL BE DETERMINED DURING DETAILED DESIGN.

- ### LEGEND
- REINFORCED CONCRETE FLOOD WALL CAST WITH A SUITABLE AESTHETIC FINISH
  - RETAINING WALL
  - SHEET PILE WALL
  - SHEET PILE WALL WITH CLADDING
  - KERB DRAINAGE SYSTEM
  - PROPOSED SECURITY FENCING
  - LIMITS OF LAND AFFECTED BY THE OPERATIONS AND OF LAND UPON WHICH ENTRY IS REQUIRED FOR THE PURPOSE OF CARRYING OUT THE OPERATIONS AND EXECUTING TEMPORARY WORKS.
  - PROPOSED EROSION PROTECTION (EXACT EXTENTS TO BE DETERMINED AT DETAIL DESIGN)
  - EXISTING EROSION PROTECTION
  - RAISED ROAD/ACCESS TRACK
  - SURFACE WATER DRAINAGE CHANNEL
  - CONCRETE
  - GRAVEL
  - EMBANKMENT (WITH IMPERMEABLE CORE WHERE REQUIRED)
  - OUTFALL
  - SURFACE WATER DRAINAGE SYSTEM
  - SECONDARY SPILL OFF SYSTEM
  - EXISTING OUTFALL TO BE FITTED WITH NON-RETURN VALVES
  - ACCESS STEPS
  - SLUICE
  - GATE ACCESS

- ### SERVICES
- TELECOMS
  - OVERHEAD ELECTRICITY
  - UNDERGROUND ELECTRICITY
  - GAS
  - FOUL WATER
  - SURFACE WATER
  - WATER MAIN
  - COMBINED SEWER



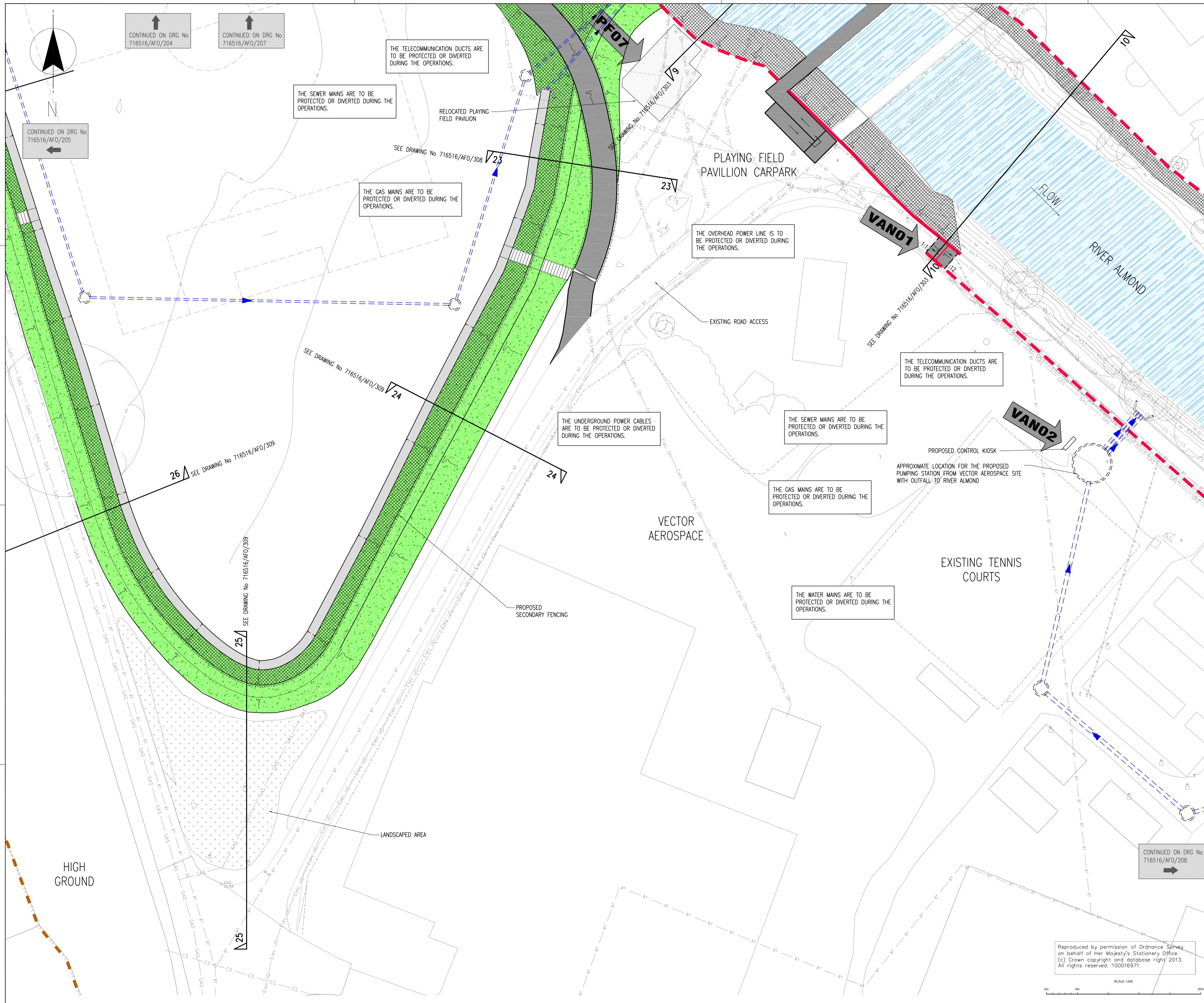
THIS IS THE PLAN MARKED **716516/AFO/205** REFERRED TO IN THE FLOOD PROTECTION SCHEME FOR ALMONDBANK FLOOD PROTECTION SCHEME 2013

PROPER OFFICER  
 (Signature)  
 FOR PERTH AND KINROSS COUNCIL

REV	DESCRIPTION	DATE	BY	CHECKED
E	CLIENT AMENDMENTS	28.04.13	PLUMBERT	NCOOKE
D	CLIENT AMENDMENTS	30.05.13	PLUMBERT	NCOOKE
C	CLIENT AMENDMENTS	07.05.13	PLUMBERT	NCOOKE
B	FOR INFORMATION	15.02.13	PLUMBERT	NCOOKE
A	FOR INFORMATION	30.04.12	NCHAMBERS	NCOOKE

Project: ALMONDBANK FLOOD PROTECTION SCHEME  
 Drawing Title: FLOOD PROTECTION OPERATIONS SHEET 6 OF 15 PLAYING FIELD FLOOD STORAGE AREA

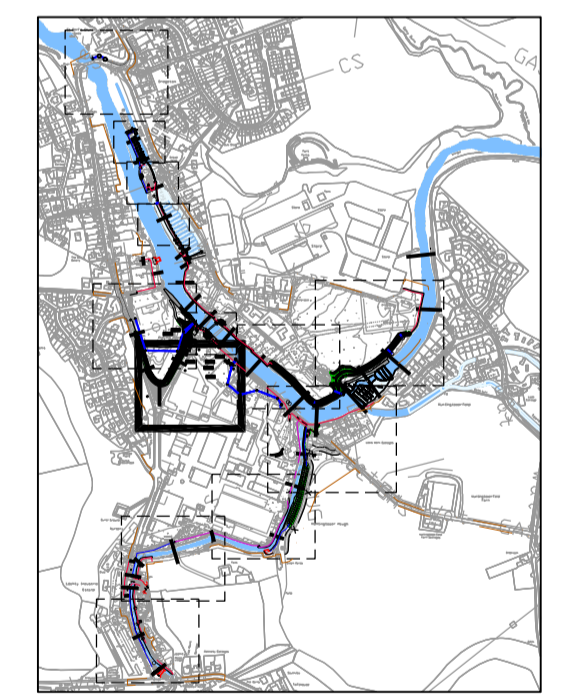




- NOTES**
1. THESE PLANS ARE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 60 AND SCHEDULE 2 OF THE FLOOD RISK MANAGEMENT (SCOTLAND) ACT 2009.
  2. THESE PLANS ARE TO BE READ IN CONJUNCTION WITH THE ALMONDBANK FLOOD PROTECTION SCHEME 2013.
  3. OPERATIONS ALONG THE LENGTH OF THE RIVER ALMOND AND THE EAST POW BURN WILL BE FINISHED WITH A SCHEME OF PLANTING AND LANDSCAPING.
  4. ALL OUTFALLS WHICH DISCHARGE TO THE RIVER ALMOND AND THE EAST POW BURN IDENTIFIED WITHIN THE OPERATIONS, WILL INCORPORATE APPROPRIATE BACK FLOW PREVENTION MEASURES.
  5. INFORMATION RECEIVED FROM STATUTORY UNDERTAKERS HAS BEEN USED TO IDENTIFY LOCATIONS OF SERVICES, EXACT LOCATIONS OF THESE SERVICES WILL BE DETERMINED DURING DETAILED DESIGN.

- LEGEND**
- REINFORCED CONCRETE FLOOD WALL CAST WITH A SUITABLE AESTHETIC FINISH.
  - RETAINING WALL
  - SHEET PILE WALL
  - SHEET PILE WALL WITH CLADDING
  - KERB DRAINAGE SYSTEM
  - PROPOSED SECURITY FENCING
  - LIMITS OF LAND AFFECTED BY THE OPERATIONS AND OF LAND UPON WHICH ENTRY IS REQUIRED FOR THE PURPOSE OF CARRYING OUT THE OPERATIONS AND EXECUTING TEMPORARY WORKS.
  - PROPOSED EROSION PROTECTION (EXACT EXTENTS TO BE DETERMINED AT DETAIL DESIGN)
  - EXISTING EROSION PROTECTION
  - RAISED ROAD/ACCESS TRACK
  - SURFACE WATER DRAINAGE CHANNEL
  - CONCRETE
  - GRAVEL
  - EMBANKMENT (WITH IMPERMEABLE CORE WHERE REQUIRED)
  - OUTFALL
  - SURFACE WATER DRAINAGE SYSTEM
  - SECONDARY SPILL OFF SYSTEM
  - EXISTING OUTFALL TO BE FITTED WITH NON-RETURN VALVES
  - ACCESS STEPS
  - SLUICE
  - LOCKABLE BARRIER TO PREVENT VEHICLE ACCESS DURING FLOOD EVENT

- SERVICES**
- BT TELECOMS
  - FW FOUL WATER
  - ELec OH OVERHEAD ELECTRICITY
  - SW SURFACE WATER
  - ELec LG UNDERGROUND ELECTRICITY
  - WAT WATER MAIN
  - GAS GAS
  - CS COMBINED SEWER



THIS IS THE PLAN MARKED **716516/AFO/206** REFERRED TO IN THE FLOOD PROTECTION SCHEME FOR ALMONDBANK FLOOD PROTECTION SCHEME 2013

PROPER OFFICER

(Signature)

FOR PERTH AND KINROSS COUNCIL

(Date)

Version	Drawn	Checked	Approved
E	W.CHAMBERS	P.JAMBER	N.COOTE
D	S.MCCOLLICH	P.JAMBER	N.COOTE
C	S.MCCOLLICH	P.JAMBER	N.COOTE
B	W.CHAMBERS	P.JAMBER	N.COOTE
A	S.MCCOLLICH	W.CHAMBERS	N.COOTE

Project: ALMONDBANK FLOOD PROTECTION SCHEME

Client: PERTH & KINROSS COUNCIL

Drawing Title: FLOOD PROTECTION OPERATIONS SHEET 7 OF 15 VECTOR AEROSPACE AND PLAYING FIELD FLOOD STORAGE AREA

Scale: 1:200

Purpose of Issue: FLOOD PROTECTION OPERATIONS

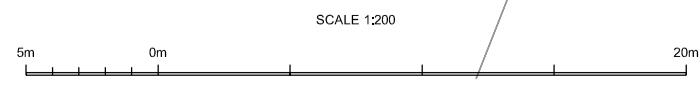
Office: LIVERPOOL

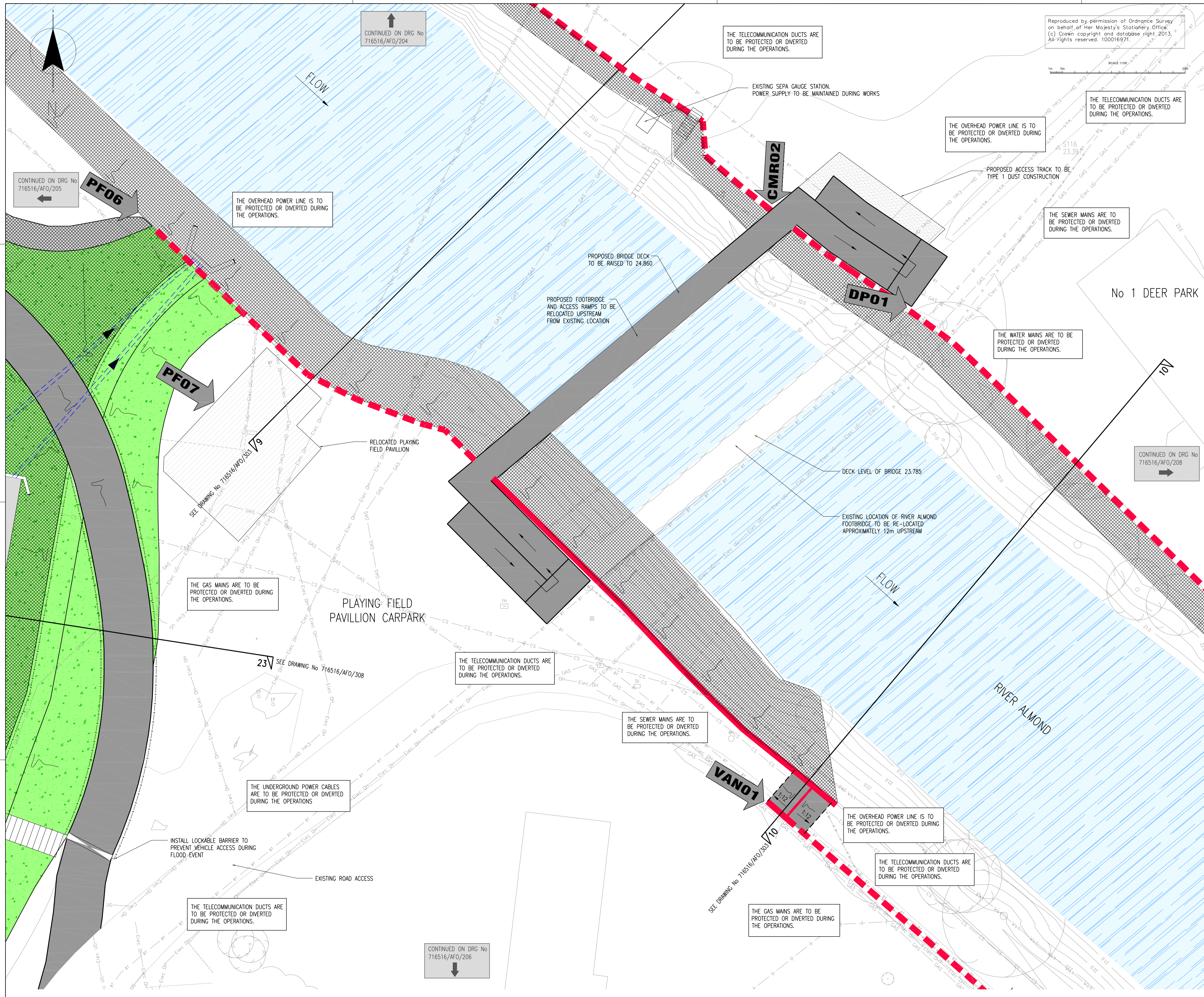
Tel No: 0151 237-4200

Drawing No: 716516/AFO/206

Version: E

Reproduced by permission of Ordnance Survey on behalf of Her Majesty's Stationary Office. (c) Crown copyright and database right 2013. All rights reserved. 100016971.



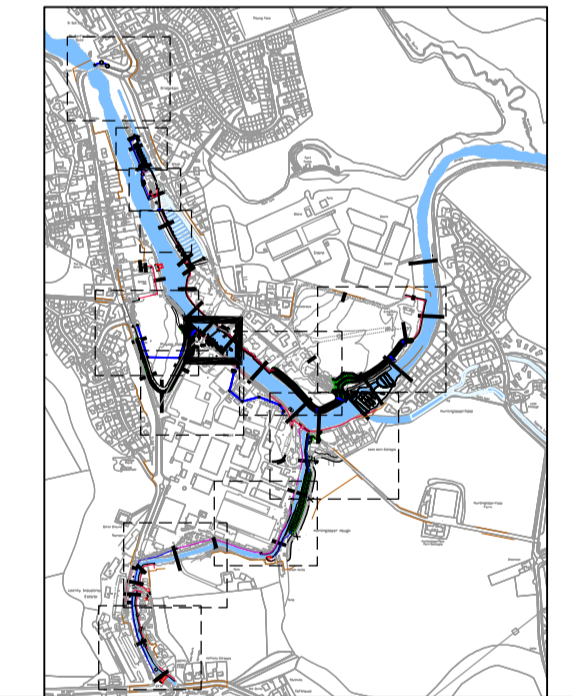


Reproduced by permission of Ordnance Survey on behalf of Her Majesty's Stationery Office. (c) Crown copyright and database right, 2013. All rights reserved. 100016971.

- ### NOTES
1. THESE PLANS ARE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 60 AND SCHEDULE 2 OF THE FLOOD RISK MANAGEMENT (SCOTLAND) ACT 2009.
  2. THESE PLANS ARE TO BE READ IN CONJUNCTION WITH THE ALMONDBANK FLOOD PROTECTION SCHEME 2013.
  3. OPERATIONS ALONG THE LENGTH OF THE RIVER ALMOND AND THE EAST POW BURN WILL BE FINISHED WITH A SCHEME OF PLANTING AND LANDSCAPING.
  4. ALL OUTFALLS WHICH DISCHARGE TO THE RIVER ALMOND AND THE EAST POW BURN IDENTIFIED WITHIN THE OPERATIONS, WILL INCORPORATE APPROPRIATE BACK FLOW PREVENTION MEASURES.
  5. INFORMATION RECEIVED FROM STATUTORY UNDERTAKERS HAS BEEN USED TO IDENTIFY LOCATIONS OF SERVICES, EXACT LOCATIONS OF THESE SERVICES WILL BE DETERMINED DURING DETAILED DESIGN.

- ### LEGEND
- REINFORCED CONCRETE FLOOD WALL CAST WITH A SUITABLE AESTHETIC FINISH
  - RETAINING WALL
  - SHEET PILE WALL
  - SHEET PILE WALL WITH CLADDING
  - KERB DRAINAGE SYSTEM
  - PROPOSED SECURITY FENCING
  - LIMITS OF LAND AFFECTED BY THE OPERATIONS AND OF LAND UPON WHICH ENTRY IS REQUIRED FOR THE PURPOSE OF CARRYING OUT THE OPERATIONS AND EXECUTING TEMPORARY WORKS.
  - PROPOSED EROSION PROTECTION (EXACT EXTENTS TO BE DETERMINED AT DETAIL DESIGN)
  - EXISTING EROSION PROTECTION
  - RAISED ROAD/ ACCESS TRACK
  - SURFACE WATER DRAINAGE CHANNEL
  - CONCRETE
  - GRAVEL
  - EMBANKMENT (WITH IMPERMEABLE CORE WHERE REQUIRED)
  - OUTFALL
  - SURFACE WATER DRAINAGE SYSTEM
  - SECONDARY SPILL OFF SYSTEM
  - EXISTING OUTFALL TO BE FITTED WITH NON-RETURN VALVES
  - ACCESS STEPS
  - SLUICE
  - LOCKABLE BARRIER TO PREVENT VEHICLE ACCESS DURING FLOOD EVENT

- ### SERVICES
- BT TELECOMS
  - FW FOUL WATER
  - Overhead Electricity
  - SW SURFACE WATER
  - Underground Electricity
  - WM WATER MAIN
  - GAS
  - CS COMBINED SEWER



THIS IS THE PLAN MARKED **716516/WO/207** REFERRED TO IN THE FLOOD PROTECTION SCHEME FOR ALMONDBANK FLOOD PROTECTION SCHEME 2013.

PROPER OFFICER  
(Signature)  
FOR PERTH AND KINROSS COUNCIL

(date)	NO	DESCRIPTION	BY	DATE
F	CLIENT AMENDMENTS	MEMBERS	FLAMBERT	NCOOKE
E	CLIENT AMENDMENTS	S.MCCOLLICH	A.M.PHIPSON	NCOOKE
D	CLIENT AMENDMENTS	S.MCCOLLICH	FLAMBERT	NCOOKE
C	CLIENT AMENDMENTS	S.MCCOLLICH	FLAMBERT	NCOOKE
B	FOR INFORMATION	MEMBERS	FLAMBERT	NCOOKE
A	FOR INFORMATION	S.MCCOLLICH	MEMBERS	NCOOKE

Project: ALMONDBANK FLOOD PROTECTION SCHEME

Drawing Title: FLOOD PROTECTION OPERATIONS SHEET 8 OF 15 RIVER ALMOND FOOTBRIDGE

**mouchel** building great relationships

Scale of All Notes: 1:100

Purpose of Issue: FLOOD PROTECTION OPERATIONS

Office: LIVERPOOL | Tel No: 0151 242-4200 | Drawing No: 716516/AFO/207 | Version: F

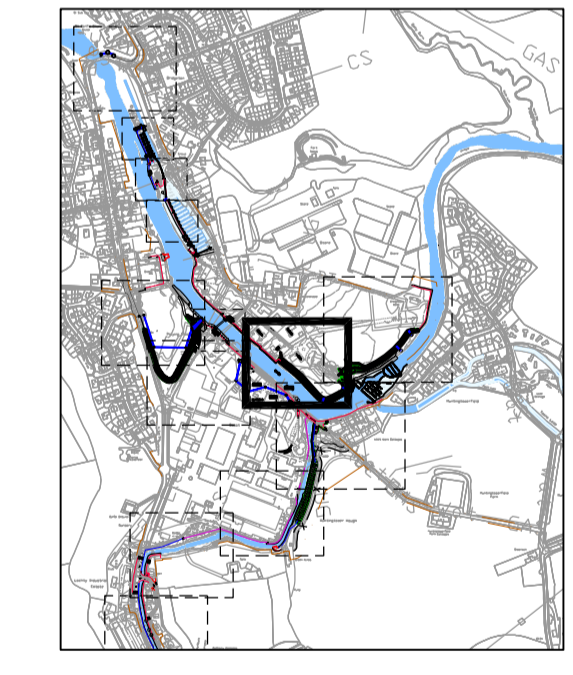
Reproduced by permission of Ordnance Survey on behalf of Her Majesty's Stationery Office. (c) Crown copyright and database right 2013. All rights reserved. 100016971.

SCALE 1:200

- ### NOTES
1. THESE PLANS ARE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 60 AND SCHEDULE 2 OF THE FLOOD RISK MANAGEMENT (SCOTLAND) ACT 2009.
  2. THESE PLANS ARE TO BE READ IN CONJUNCTION WITH THE ALMONDBANK FLOOD PROTECTION SCHEME 2013.
  3. OPERATIONS ALONG THE LENGTH OF THE RIVER ALMOND AND THE EAST POW BURN WILL BE FINISHED WITH A SCHEME OF PLANTING AND LANDSCAPING.
  4. ALL OUTFALLS WHICH DISCHARGE TO THE RIVER ALMOND AND THE EAST POW BURN IDENTIFIED WITHIN THE OPERATIONS, WILL INCORPORATE APPROPRIATE BACK FLOW PREVENTION MEASURES.
  5. INFORMATION RECEIVED FROM STATUTORY UNDERTAKERS HAS BEEN USED TO IDENTIFY LOCATIONS OF SERVICES, EXACT LOCATIONS OF THESE SERVICES WILL BE DETERMINED DURING DETAILED DESIGN.

- ### LEGEND
- REINFORCED CONCRETE FLOOD WALL CAST WITH A SUITABLE AESTHETIC FINISH
  - RETAINING WALL
  - SHEET PILE WALL
  - SHEET PILE WALL WITH CLADDING
  - KERB DRAINAGE SYSTEM
  - PROPOSED SECURITY FENCING
  - LIMITS OF LAND AFFECTED BY THE OPERATIONS AND OF LAND UPON WHICH ENTRY IS REQUIRED FOR THE PURPOSE OF CARRYING OUT THE OPERATIONS AND EXECUTING TEMPORARY WORKS.
  - PROPOSED EROSION PROTECTION (EXACT EXTENTS TO BE DETERMINED AT DETAIL DESIGN)
  - EXISTING EROSION PROTECTION
  - RAISED ROAD/ACCESS TRACK
  - SURFACE WATER DRAINAGE CHANNEL
  - CONCRETE
  - GRAVEL
  - OUTFALL
  - SURFACE WATER DRAINAGE SYSTEM
  - SECONDARY SPILL OFF SYSTEM
  - EMBANKMENT (WITH IMPERMEABLE CORE WHERE REQUIRED)
  - EXISTING OUTFALL TO BE FITTED WITH NON-RETURN VALVES
  - ACCESS STEPS
  - SLUICE

- ### SERVICES
- TELECOMS
  - OVERHEAD ELECTRICITY
  - UNDERGROUND ELECTRICITY
  - GAS
  - FOUL WATER
  - SURFACE WATER
  - WATER MAIN
  - COMBINED SEWER



THIS IS THE PLAN MARKED **716516/AFO/208** REFERRED TO IN THE FLOOD PROTECTION SCHEME FOR ALMONDBANK FLOOD PROTECTION SCHEME 2013

PROPER OFFICER

(Signature)

FOR PERTH AND KINROSS COUNCIL

(Date)

Version	Drawn	Checked	Approved
E	CLIENT AMENDMENTS	W.OWHIMERS 20.06.13	N.LOODE 20.06.13
D	CLIENT AMENDMENTS	S.MCLOULLOH 30.05.13	F.LAMBERT 30.05.13
C	CLIENT AMENDMENTS	S.MCLOULLOH 07.05.13	F.LAMBERT 07.05.13
B	FOR INFORMATION	W.OWHIMERS 15.02.13	N.LOODE 15.02.13
A	FOR INFORMATION	S.MCLOULLOH 01.05.12	W.OWHIMERS 08.05.12

Project: ALMONDBANK FLOOD PROTECTION SCHEME

Client: PERTH & KINROSS COUNCIL

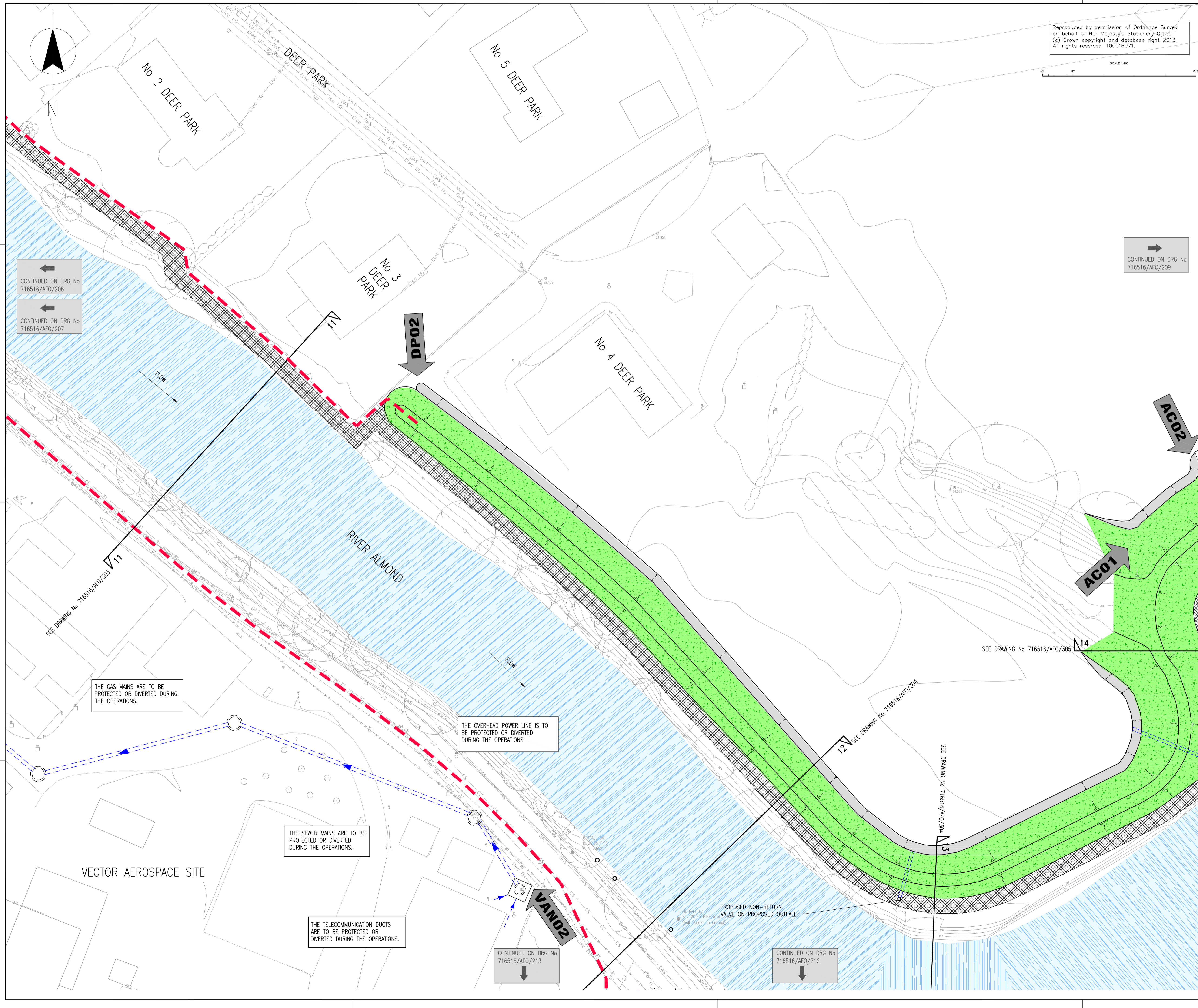
Drawing Title: FLOOD PROTECTION OPERATIONS SHEET 9 OF 15 DEER PARK & VECTOR AEROSPACE

**mouchel** building great relationships

Scale: 1:200

Purpose of Issue: FLOOD PROTECTION OPERATIONS

Office: LIVERPOOL | Tel No: 0151 237-4200 | Drawing No: 716516/AFO/208 | Version: E



CONTINUED ON DRG No 716516/AFO/206

CONTINUED ON DRG No 716516/AFO/207

CONTINUED ON DRG No 716516/AFO/209

CONTINUED ON DRG No 716516/AFO/213

CONTINUED ON DRG No 716516/AFO/212

THE GAS MAINS ARE TO BE PROTECTED OR DIVERTED DURING THE OPERATIONS.

THE OVERHEAD POWER LINE IS TO BE PROTECTED OR DIVERTED DURING THE OPERATIONS.

THE SEWER MAINS ARE TO BE PROTECTED OR DIVERTED DURING THE OPERATIONS.

THE TELECOMMUNICATION DUCTS ARE TO BE PROTECTED OR DIVERTED DURING THE OPERATIONS.

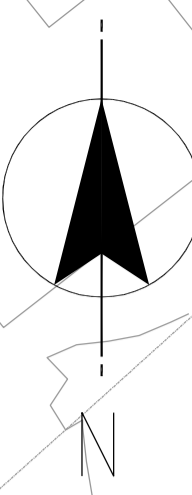
PROPOSED NON-RETURN VALVE ON PROPOSED OUTFALL

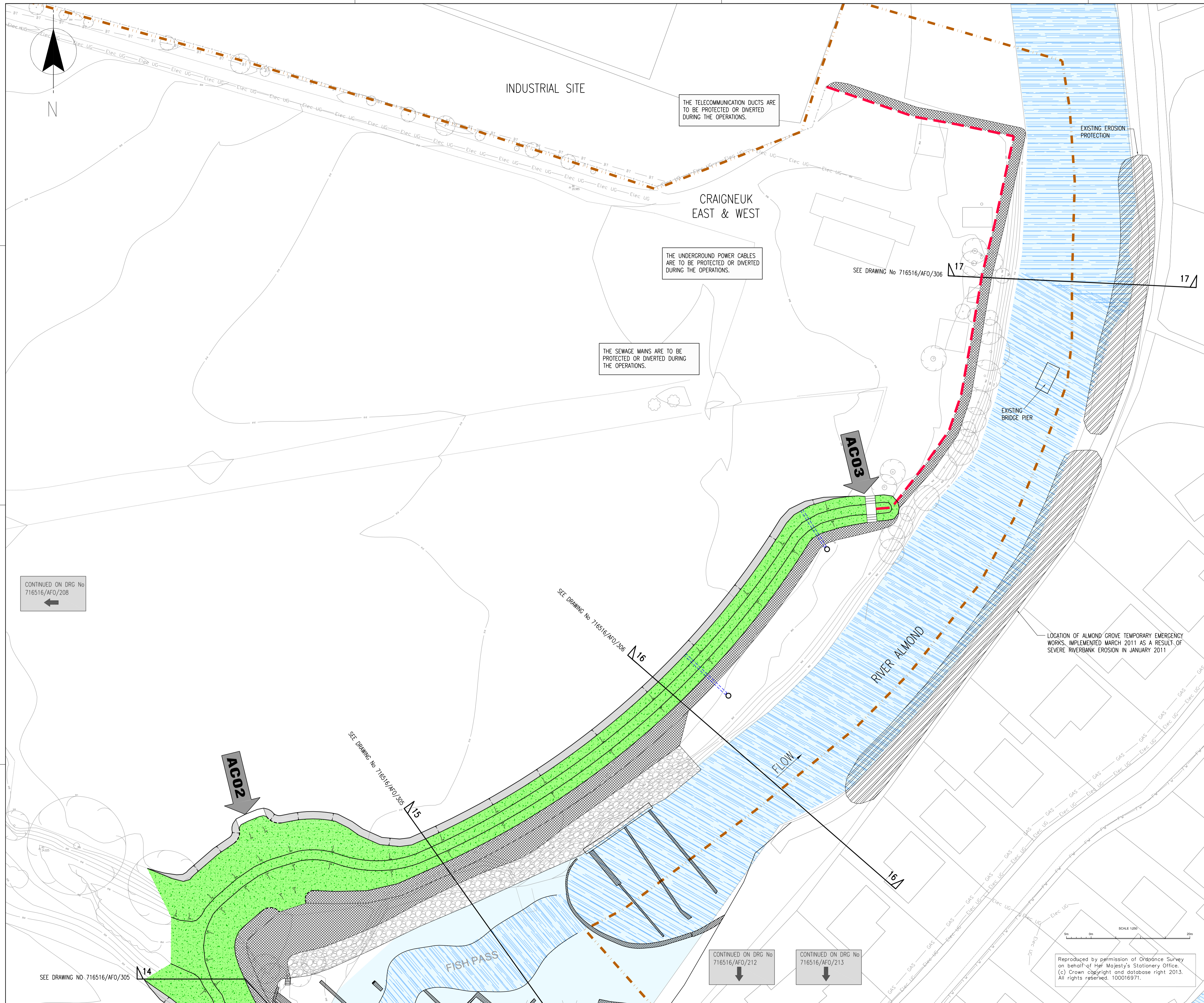
SEE DRAWING No 716516/AFO/305

SEE DRAWING No 716516/AFO/304

SEE DRAWING No 716516/AFO/304

SEE DRAWING No 716516/AFO/303





CONTINUED ON DRG No 716516/AF0/208

SEE DRAWING NO. 716516/AF0/305

THE TELECOMMUNICATION DUCTS ARE TO BE PROTECTED OR DIVERTED DURING THE OPERATIONS.

THE UNDERGROUND POWER CABLES ARE TO BE PROTECTED OR DIVERTED DURING THE OPERATIONS.

THE SEWAGE MAINS ARE TO BE PROTECTED OR DIVERTED DURING THE OPERATIONS.

SEE DRAWING No 716516/AF0/306

SEE DRAWING No 716516/AF0/306

SEE DRAWING No 716516/AF0/305

CONTINUED ON DRG No 716516/AF0/212

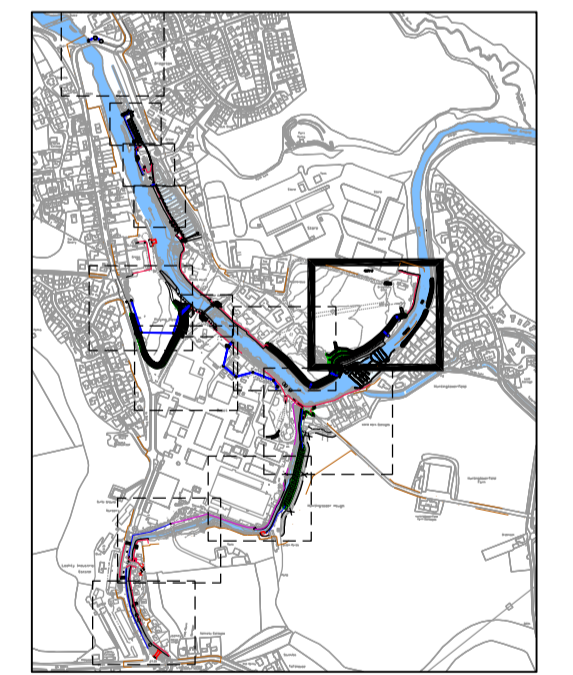
CONTINUED ON DRG No 716516/AF0/213

Reproduced by permission of Ordnance Survey on behalf of Her Majesty's Stationary Office. (c) Crown copyright and database right 2013. All rights reserved. 100016971.

- NOTES**
1. THESE PLANS ARE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 60 AND SCHEDULE 2 OF THE FLOOD RISK MANAGEMENT (SCOTLAND) ACT 2009.
  2. THESE PLANS ARE TO BE READ IN CONJUNCTION WITH THE ALMONDBANK FLOOD PROTECTION SCHEME 2013.
  3. OPERATIONS ALONG THE LENGTH OF THE RIVER ALMOND AND THE EAST POW BURN WILL BE FINISHED WITH A SCHEME OF PLANTING AND LANDSCAPING.
  4. ALL OUTFALLS WHICH DISCHARGE TO THE RIVER ALMOND AND THE EAST POW BURN IDENTIFIED WITHIN THE OPERATIONS, WILL INCORPORATE APPROPRIATE BACK FLOW PREVENTION MEASURES.
  5. INFORMATION RECEIVED FROM STATUTORY UNDERTAKERS HAS BEEN USED TO IDENTIFY LOCATIONS OF SERVICES, EXACT LOCATIONS OF THESE SERVICES WILL BE DETERMINED DURING DETAILED DESIGN.

- LEGEND**
- REINFORCED CONCRETE FLOOD WALL CAST WITH A SUITABLE AESTHETIC FINISH
  - RETAINING WALL
  - SHEET PILE WALL
  - SHEET PILE WALL WITH CLADDING
  - KERB DRAINAGE SYSTEM
  - PROPOSED SECURITY FENCING
  - LIMITS OF LAND AFFECTED BY THE OPERATIONS AND OF LAND UPON WHICH ENTRY IS REQUIRED FOR THE PURPOSE OF CARRYING OUT THE OPERATIONS AND EXECUTING TEMPORARY WORKS.
  - PROPOSED EROSION PROTECTION (EXACT EXTENTS TO BE DETERMINED AT DETAIL DESIGN)
  - EXISTING EROSION PROTECTION
  - RAISED ROAD/ACCESS TRACK
  - SURFACE WATER DRAINAGE CHANNEL
  - CONCRETE
  - GRAVEL
  - EXISTING ROCK ARMOUR
  - EMBANKMENT (WITH IMPERMEABLE CORE WHERE REQUIRED)
  - OUTFALL
  - SURFACE WATER DRAINAGE SYSTEM
  - SECONDARY SPILL OFF SYSTEM
  - SECTION MARKERS
  - EXISTING OUTFALL TO BE FITTED WITH NON-RETURN VALVES
  - START LOCATION OF REFERENCED OPERATION
  - ACCESS STEPS
  - GATE ACCESS
  - SLUICE

- SERVICES**
- BT TELECOMS
  - Overhead Electricity
  - Underground Electricity
  - GAS
  - Foul Water
  - Surface Water
  - Water Main
  - Combined Sewer



THIS IS THE PLAN MARKED 716516/AF0/208 REFERRED TO IN THE FLOOD PROTECTION SCHEME FOR ALMONDBANK FLOOD PROTECTION SCHEME 2013

PROPER OFFICER

(Signature) \_\_\_\_\_

FOR PERTH AND KINROSS COUNCIL

(Date) \_\_\_\_\_

Version	Amendment	Drawn Date	Checked Date	Approved Date
E	CLIENT AMENDMENTS	W CHAMBERS 28.08.13	PLUMBERT 28.08.13	N COOKE 28.08.13
D	CLIENT AMENDMENTS	S MCDONALD 30.05.13	PLUMBERT 30.05.13	N COOKE 30.05.13
C	CLIENT AMENDMENTS	S MCDONALD 07.05.13	PLUMBERT 07.05.13	N COOKE 07.05.13
B	FOR INFORMATION	W CHAMBERS 15.02.13	PLUMBERT 15.02.13	N COOKE 15.02.13
A	FOR INFORMATION	S MCDONALD 01.05.12	W CHAMBERS 08.05.12	N COOKE 08.05.12

Project: ALMONDBANK FLOOD PROTECTION SCHEME

Client: PERTH & KINROSS COUNCIL

Drawing Title: FLOOD PROTECTION OPERATIONS SHEET 10 OF 15 CRAIGNEUK EAST & WEST

Scale: 1:250

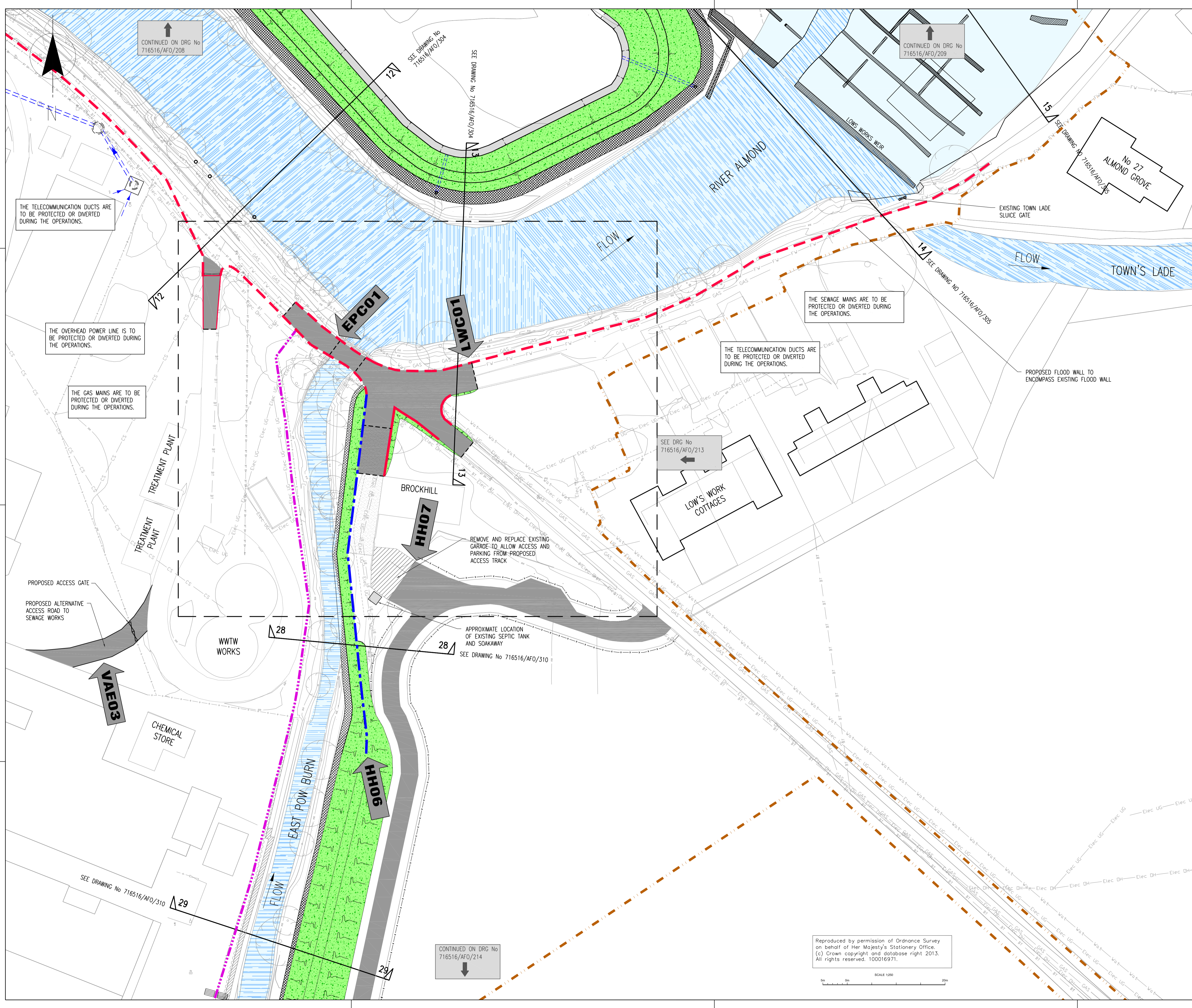
Purpose of Issue: FLOOD PROTECTION OPERATIONS

Office: LIVERPOOL

Tel No: 0151 237-4200

Drawing No: 716516/AF0/209

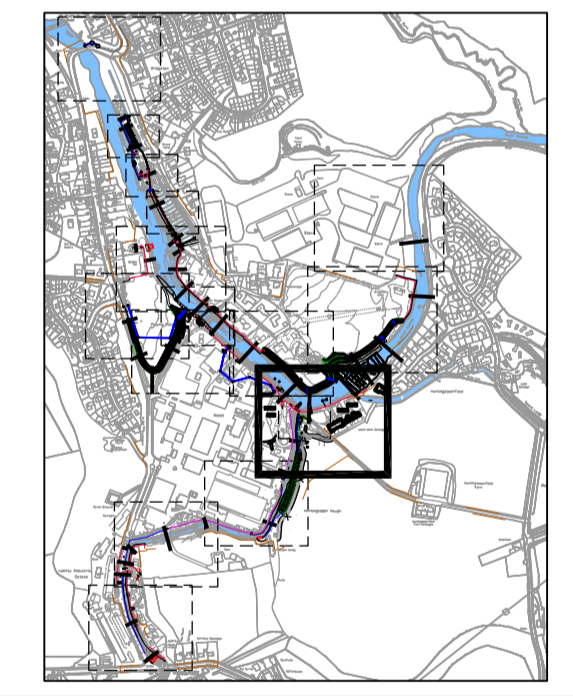
Version: E



- ### NOTES
- THESE PLANS ARE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 60 AND SCHEDULE 2 OF THE FLOOD RISK MANAGEMENT (SCOTLAND) ACT 2009.
  - THESE PLANS ARE TO BE READ IN CONJUNCTION WITH THE ALMONDBANK FLOOD PROTECTION SCHEME 2013.
  - OPERATIONS ALONG THE LENGTH OF THE RIVER ALMOND AND THE EAST POW BURN WILL BE FINISHED WITH A SCHEME OF PLANTING AND LANDSCAPING.
  - ALL OUTFALLS WHICH DISCHARGE TO THE RIVER ALMOND AND THE EAST POW BURN IDENTIFIED WITHIN THE OPERATIONS, WILL INCORPORATE APPROPRIATE BACK FLOW PREVENTION MEASURES.
  - INFORMATION RECEIVED FROM STATUTORY UNDERTAKERS HAS BEEN USED TO IDENTIFY LOCATIONS OF SERVICES, EXACT LOCATIONS OF THESE SERVICES WILL BE DETERMINED DURING DETAILED DESIGN.

- ### LEGEND
- REINFORCED CONCRETE FLOOD WALL CAST WITH A SUITABLE AESTHETIC FINISH
  - RETAINING WALL
  - SHEET PILE WALL
  - SHEET PILE WALL WITH CLADDING
  - KERB DRAINAGE SYSTEM
  - PROPOSED SECURITY FENCING
  - LIMITS OF LAND AFFECTED BY THE OPERATIONS AND OF LAND UPON WHICH ENTRY IS REQUIRED FOR THE PURPOSE OF CARRYING OUT THE OPERATIONS AND EXECUTING TEMPORARY WORKS.
  - PROPOSED EROSION PROTECTION (EXACT EXTENTS TO BE DETERMINED AT DETAIL DESIGN)
  - EXISTING EROSION PROTECTION
  - RAISED ROAD/ACCESS TRACK
  - SURFACE WATER DRAINAGE CHANNEL
  - CONCRETE
  - GRAVEL
  - EMBANKMENT (WITH IMPERMEABLE CORE WHERE REQUIRED)
  - OUTFALL
  - SURFACE WATER DRAINAGE SYSTEM
  - SECONDARY SPILL OFF SYSTEM
  - EXISTING OUTFALL TO BE FITTED WITH NON-RETURN VALVES
  - ACCESS STEPS
  - SLUICE

- ### SERVICES
- TELECOMS
  - OVERHEAD ELECTRICITY
  - UNDERGROUND ELECTRICITY
  - GAS
  - FOUL WATER
  - SURFACE WATER
  - WATER MAIN
  - COMBINED SEWER



THIS IS THE PLAN MARKED 716516/AFO/212 REFERRED TO IN THE FLOOD PROTECTION SCHEME FOR ALMONDBANK FLOOD PROTECTION SCHEME 2013.

PROPER OFFICER  
(Signature)  
FOR PERTH AND KINROSS COUNCIL  
(date)

REV	DESCRIPTION	NO	DATE	BY	CHECKED	DATE
F	CLIENT AMENDMENTS	S.MCLOLLICHON	28.06.13	A.MILKINSON	N.COOPER	28.06.13
E	CLIENT AMENDMENTS	S.MCLOLLICHON	17.06.13	A.MILKINSON	N.COOPER	17.06.13
D	CLIENT AMENDMENTS	S.MCLOLLICHON	30.05.13	A.MILKINSON	N.COOPER	30.05.13
C	CLIENT AMENDMENTS	S.MCLOLLICHON	07.05.13	A.MILKINSON	N.COOPER	07.05.13
B	FOR INFORMATION	S.MCLOLLICHON	15.02.13	A.MILKINSON	N.COOPER	15.02.13
A	FOR INFORMATION	S.MCLOLLICHON	02.05.12	A.MILKINSON	N.COOPER	02.05.12

Project: ALMONDBANK FLOOD PROTECTION SCHEME

Drawing Title: FLOOD PROTECTION OPERATIONS SHEET 11 OF 15 CONFLUENCE OF RIVER ALMOND & EAST POW BURN

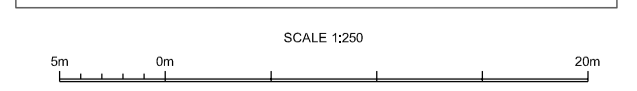
**mouchel** building great relationships

Scale: 1:250

Purpose of Issue: FLOOD PROTECTION OPERATIONS

Office: LIVERPOOL | Tel No: 0151 237-4200 | Drawing No: 716516/AFO/212 | Version: F

Reproduced by permission of Ordnance Survey on behalf of Her Majesty's Stationary Office. (c) Crown copyright and database right 2013. All rights reserved. 100016971.



CONTINUED ON DRG No 716516/AFO/208

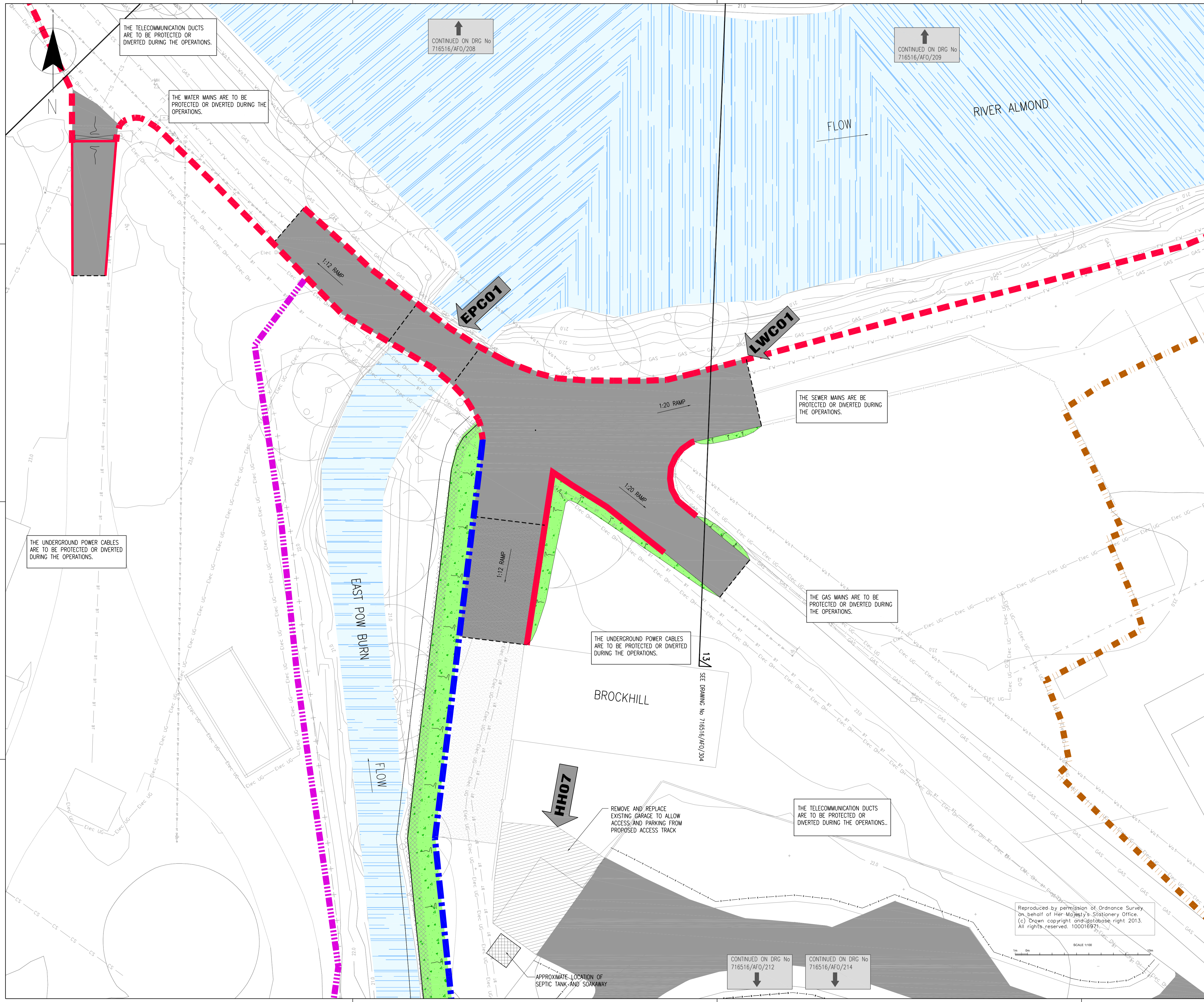
CONTINUED ON DRG No 716516/AFO/209

CONTINUED ON DRG No 716516/AFO/214

SEE DRAWING No 716516/AFO/310

SEE DRG No 716516/AFO/213

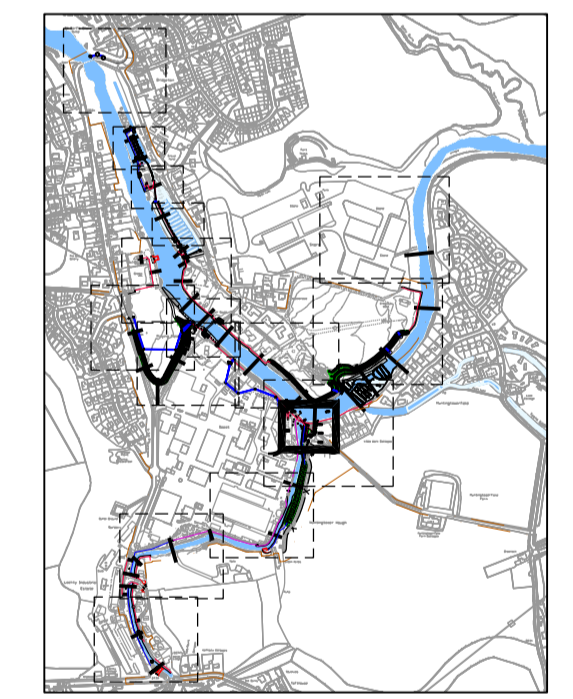
SEE DRAWING No 716516/AFO/310



- NOTES**
1. THESE PLANS ARE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 60 AND SCHEDULE 2 OF THE FLOOD RISK MANAGEMENT (SCOTLAND) ACT 2009.
  2. THESE PLANS ARE TO BE READ IN CONJUNCTION WITH THE ALMONDBANK FLOOD PROTECTION SCHEME 2013.
  3. OPERATIONS ALONG THE LENGTH OF THE RIVER ALMOND AND THE EAST POW BURN WILL BE FINISHED WITH A SCHEME OF PLANTING AND LANDSCAPING.
  4. ALL OUTFALLS WHICH DISCHARGE TO THE RIVER ALMOND AND THE EAST POW BURN IDENTIFIED WITHIN THE OPERATIONS, WILL INCORPORATE APPROPRIATE BACK FLOW PREVENTION MEASURES.
  5. INFORMATION RECEIVED FROM STATUTORY UNDERTAKERS HAS BEEN USED TO IDENTIFY LOCATIONS OF SERVICES, EXACT LOCATIONS OF THESE SERVICES WILL BE DETERMINED DURING DETAILED DESIGN.

- LEGEND**
- REINFORCED CONCRETE FLOOD WALL CAST WITH A SUITABLE AESTHETIC FINISH
  - RETAINING WALL
  - SHEET PILE WALL
  - SHEET PILE WALL WITH CLADDING
  - KERB DRAINAGE SYSTEM
  - PROPOSED SECURITY FENCING
  - LIMITS OF LAND AFFECTED BY THE OPERATIONS AND OF LAND UPON WHICH ENTRY IS REQUIRED FOR THE PURPOSE OF CARRYING OUT THE OPERATIONS AND EXECUTING TEMPORARY WORKS.
  - PROPOSED EROSION PROTECTION (EXACT EXTENTS TO BE DETERMINED AT DETAIL DESIGN)
  - EXISTING EROSION PROTECTION
  - RAISED ROAD/ACCESS TRACK
  - SURFACE WATER DRAINAGE CHANNEL
  - CONCRETE
  - GRAVEL
  - EMBANKMENT (WITH IMPERMEABLE CORE WHERE REQUIRED)
  - OUTFALL
  - SURFACE WATER DRAINAGE SYSTEM
  - SECONDARY SPILL OFF SYSTEM
  - EXISTING OUTFALL TO BE FITTED WITH NON-RETURN VALVES
  - ACCESS STEPS
  - SLUICE
  - SECTION MARKERS
  - START LOCATION OF REFERENCED OPERATION
  - GATE ACCESS

- SERVICES**
- BT BT TELECOMS
  - Elec OH OVERHEAD ELECTRICITY
  - Elec UG UNDERGROUND ELECTRICITY
  - GAS GAS
  - FW FW FOUL WATER
  - SW SW SURFACE WATER
  - Wat Wat WATER MAIN
  - CS CS COMBINED SEWER



THIS IS THE PLAN MARKED **716516/AFO/213** REFERRED TO IN THE FLOOD PROTECTION SCHEME FOR ALMONDBANK FLOOD PROTECTION SCHEME 2013.

PROPER OFFICER  
(Signature)  
FOR PERTH AND KINROSS COUNCIL

Version	Description	Drawn Date	Checked Date	Approved Date
F	CLIENT AMENDMENTS	28.06.13	28.06.13	28.06.13
E	CLIENT AMENDMENTS	17.06.13	17.06.13	17.06.13
D	CLIENT AMENDMENTS	30.05.13	30.05.13	30.05.13
C	CLIENT AMENDMENTS	07.05.13	07.05.13	07.05.13
B	FOR INFORMATION	15.02.13	15.02.13	15.02.13
A	FOR INFORMATION	02.05.12	08.05.12	08.05.12

Project: ALMONDBANK FLOOD PROTECTION SCHEME  
Drawing Title: FLOOD PROTECTION OPERATIONS SHEET 12 OF 15 CONFLUENCE OF RIVER ALMOND & EAST POW BURN

**mouchel** building great relationships  
Scale: 1:100  
Purpose of Issue: FLOOD PROTECTION OPERATIONS  
Drawing No: 716516/AFO/213  
Version: F

CONTINUED ON DRG No 716516/AFO/208

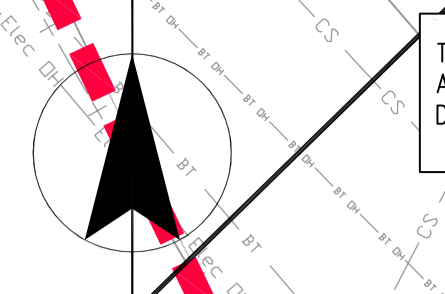
CONTINUED ON DRG No 716516/AFO/209

CONTINUED ON DRG No 716516/AFO/212

CONTINUED ON DRG No 716516/AFO/214

Reproduced by permission of Ordnance Survey on behalf of Her Majesty's Stationary Office. (c) Crown copyright and database right 2013. All rights reserved. 100016971

SCALE 1:100



THE UNDERGROUND POWER CABLES ARE TO BE PROTECTED OR DIVERTED DURING THE OPERATIONS.

THE WATER MAINS ARE TO BE PROTECTED OR DIVERTED DURING THE OPERATIONS.

THE TELECOMMUNICATION DUCTS ARE TO BE PROTECTED OR DIVERTED DURING THE OPERATIONS.

THE SEWER MAINS ARE TO BE PROTECTED OR DIVERTED DURING THE OPERATIONS.

THE GAS MAINS ARE TO BE PROTECTED OR DIVERTED DURING THE OPERATIONS.

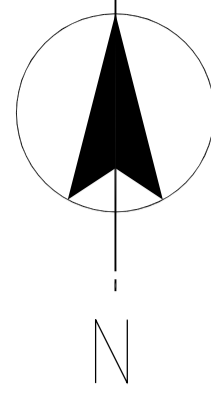
THE UNDERGROUND POWER CABLES ARE TO BE PROTECTED OR DIVERTED DURING THE OPERATIONS.

THE TELECOMMUNICATION DUCTS ARE TO BE PROTECTED OR DIVERTED DURING THE OPERATIONS.

REMOVE AND REPLACE EXISTING GARAGE TO ALLOW ACCESS AND PARKING FROM PROPOSED ACCESS TRACK

APPROXIMATE LOCATION OF SEPTIC TANK AND SOAKAWAY

SEE DRAWING No 716516/AFO/204



CONTINUED ON DRG No 716516/AFO/212

CONTINUED ON DRG No 716516/AFO/213

SEE DRAWING No 716516/AFO/310  $\Delta$  29

CONTINUED ON DRG No 716516/AFO/215

VECTOR AEROSPACE

HUNTINGTOWER HAUGH

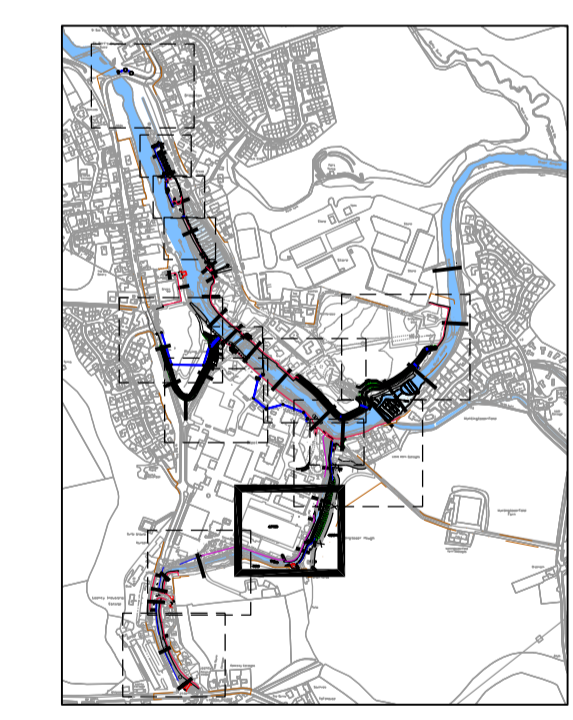
HIGH GROUND

PUDDLEDUB

- NOTES**
1. THESE PLANS ARE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 60 AND SCHEDULE 2 OF THE FLOOD RISK MANAGEMENT (SCOTLAND) ACT 2009.
  2. THESE PLANS ARE TO BE READ IN CONJUNCTION WITH THE ALMONDBANK FLOOD PROTECTION SCHEME 2013.
  3. OPERATIONS ALONG THE LENGTH OF THE RIVER ALMOND AND THE EAST POW BURN WILL BE FINISHED WITH A SCHEME OF PLANTING AND LANDSCAPING. ALL OUTFALLS WHICH DISCHARGE TO THE RIVER ALMOND AND THE EAST POW BURN IDENTIFIED WITHIN THE OPERATIONS, WILL INCORPORATE APPROPRIATE BACK FLOW PREVENTION MEASURES.
  4. INFORMATION RECEIVED FROM STATUTORY UNDERTAKERS HAS BEEN USED TO IDENTIFY LOCATIONS OF SERVICES, EXACT LOCATIONS OF THESE SERVICES WILL BE DETERMINED DURING DETAILED DESIGN.

- LEGEND**
- REINFORCED CONCRETE FLOOD WALL CAST WITH A SUITABLE AESTHETIC FINISH
  - RETAINING WALL
  - SHEET PILE WALL
  - SHEET PILE WALL WITH CLADDING
  - KERB DRAINAGE SYSTEM
  - PROPOSED SECURITY FENCING
  - LIMITS OF LAND AFFECTED BY THE OPERATIONS AND OF LAND UPON WHICH ENTRY IS REQUIRED FOR THE PURPOSE OF CARRYING OUT THE OPERATIONS AND EXECUTING TEMPORARY WORKS.
  - PROPOSED EROSION PROTECTION (EXACT EXTENTS TO BE DETERMINED AT DETAIL DESIGN)
  - EXISTING EROSION PROTECTION
  - RAISED ROAD/ACCESS TRACK
  - SURFACE WATER DRAINAGE CHANNEL
  - CONCRETE
  - GRAVEL
  - EMBANKMENT (WITH IMPERMEABLE CORE WHERE REQUIRED)
  - OUTFALL
  - SURFACE WATER DRAINAGE SYSTEM
  - SECONDARY SPILL OFF SYSTEM
  - EXISTING OUTFALL TO BE FITTED WITH NON-RETURN VALVES
  - ACCESS STEPS
  - SLUICE
  - SECTION MARKERS
  - START LOCATION OF REFERENCED OPERATION
  - GATE ACCESS

- SERVICES**
- BT TELECOMS
  - OH OVERHEAD ELECTRICITY
  - UG UNDERGROUND ELECTRICITY
  - GAS
  - FW FOUL WATER
  - SW SURFACE WATER
  - WM WATER MAIN
  - CS COMBINED SEWER



THIS IS THE PLAN MARKED 716516/AFO/214 REFERRED TO IN THE FLOOD PROTECTION SCHEME FOR ALMONDBANK FLOOD PROTECTION SCHEME 2013

PROPER OFFICER

(Signature) FOR PERTH AND KINROSS COUNCIL

(date)

Version	Amendment	Drawn Date	Checked Date	Approved Date
E	CLIENT AMENDMENTS	W CHAMBERS 20.06.13	P JAMBERT 20.06.13	N COOKE 20.06.13
D	CLIENT AMENDMENTS	S MCULLOCH 30.05.13	P JAMBERT 30.05.13	N COOKE 30.05.13
C	CLIENT AMENDMENTS	S MCULLOCH 07.05.13	P JAMBERT 07.05.13	N COOKE 07.05.13
B	FOR INFORMATION	W CHAMBERS 15.02.13	P JAMBERT 15.02.13	N COOKE 15.02.13
A	FOR INFORMATION	S MCULLOCH 02.05.12	W CHAMBERS 08.05.12	N COOKE 08.05.12

Project: ALMONDBANK FLOOD PROTECTION SCHEME

Drawing Title: FLOOD PROTECTION OPERATIONS SHEET 13 OF 15 VECTOR AEROSPACE

**mouchel** building great relationships

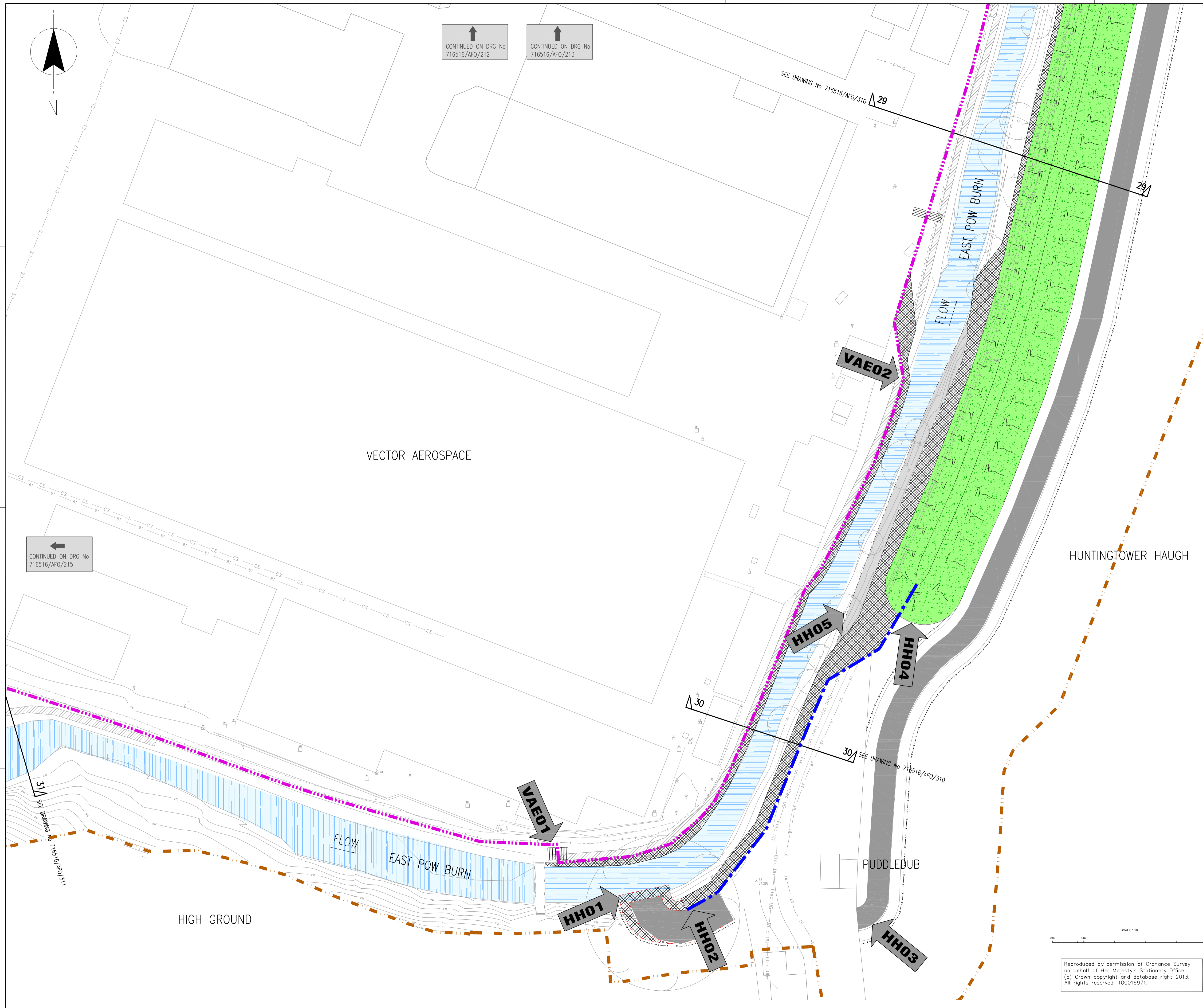
Scale: 1:200

Purpose of Issue: FLOOD PROTECTION OPERATIONS

Office: LIVERPOOL | Tel No: 0151 237-4200 | Drawing No: 716516/AFO/214 | Version: E

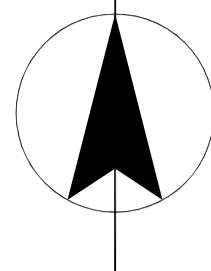
Reproduced by permission of Ordnance Survey on behalf of Her Majesty's Stationary Office. (c) Crown copyright and database right 2013. All rights reserved. 100016971.

SCALE 1:200









THE SEWER MAINS ARE TO BE PROTECTED OR DIVERTED DURING THE OPERATIONS.

THE UNDERGROUND POWER CABLES ARE TO BE PROTECTED OR DIVERTED DURING THE OPERATIONS.

CONTINUED ON DRG No 716516/AFO/215

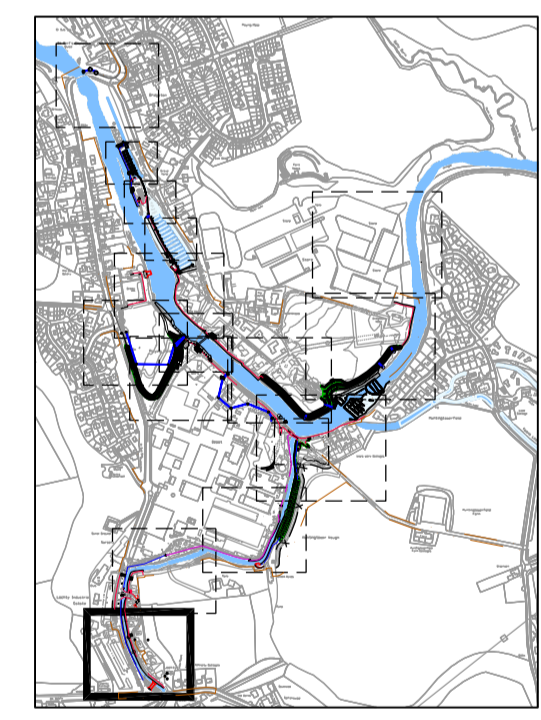
Reproduced by permission of Ordnance Survey on behalf of Her Majesty's Stationary Office. (c) Crown copyright and database right 2013. All rights reserved. 100016971.



- NOTES**
1. THESE PLANS ARE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 60 AND SCHEDULE 2 OF THE FLOOD RISK MANAGEMENT (SCOTLAND) ACT 2009.
  2. THESE PLANS ARE TO BE READ IN CONJUNCTION WITH THE ALMONDBANK FLOOD PROTECTION SCHEME 2013.
  3. OPERATIONS ALONG THE LENGTH OF THE RIVER ALMOND AND THE EAST POW BURN WILL BE FINISHED WITH A SCHEME OF PLANTING AND LANDSCAPING.
  4. ALL OUTFALLS WHICH DISCHARGE TO THE RIVER ALMOND AND THE EAST POW BURN IDENTIFIED WITHIN THE OPERATIONS, WILL INCORPORATE APPROPRIATE BACK FLOW PREVENTION MEASURES.
  5. INFORMATION RECEIVED FROM STATUTORY UNDERTAKERS HAS BEEN USED TO IDENTIFY LOCATIONS OF SERVICES, EXACT LOCATIONS OF THESE SERVICES WILL BE DETERMINED DURING DETAILED DESIGN.

- LEGEND**
- REINFORCED CONCRETE FLOOD WALL CAST WITH A SUITABLE AESTHETIC FINISH
  - RETAINING WALL
  - SHEET PILE WALL
  - SHEET PILE WALL WITH CLADDING
  - KERB DRAINAGE SYSTEM
  - PROPOSED SECURITY FENCING
  - LIMITS OF LAND AFFECTED BY THE OPERATIONS AND OF LAND UPON WHICH ENTRY IS REQUIRED FOR THE PURPOSE OF CARRYING OUT THE OPERATIONS AND EXECUTING TEMPORARY WORKS.
  - PROPOSED EROSION PROTECTION (EXACT EXTENTS TO BE DETERMINED AT DETAIL DESIGN)
  - EXISTING EROSION PROTECTION
  - RAISED ROAD/ACCESS TRACK
  - SURFACE WATER DRAINAGE CHANNEL
  - CONCRETE
  - GRAVEL
  - EMBANKMENT (WITH IMPERMEABLE CORE WHERE REQUIRED)
  - OUTFALL
  - SURFACE WATER DRAINAGE SYSTEM
  - SECONDARY SPILL OFF SYSTEM
  - EXISTING OUTFALL TO BE FITTED WITH NON-RETURN VALVES
  - ACCESS STEPS
  - SLUICE
  - GATE ACCESS

- SERVICES**
- BT TELECOMS
  - Overhead Electricity
  - Underground Electricity
  - GAS
  - Foul Water
  - Surface Water
  - Water Main
  - Combined Sewer



THIS IS THE PLAN MARKED 716516/AFO/216 REFERRED TO IN THE FLOOD PROTECTION SCHEME FOR ALMONDBANK FLOOD PROTECTION SCHEME 2013

PROPER OFFICER

(Signature)

FOR PERTH AND KINROSS COUNCIL

(date)

E	CLIENT AMENDMENTS	28.06.13	28.06.13	28.06.13
D	CLIENT AMENDMENTS	30.05.13	30.05.13	30.05.13
C	CLIENT AMENDMENTS	07.05.13	07.05.13	07.05.13
B	FOR INFORMATION	08.02.13	08.02.13	08.02.13
A	FOR INFORMATION	02.05.12	08.05.12	08.05.12

Project: ALMONDBANK FLOOD PROTECTION SCHEME

Client: PERTH & KINROSS COUNCIL

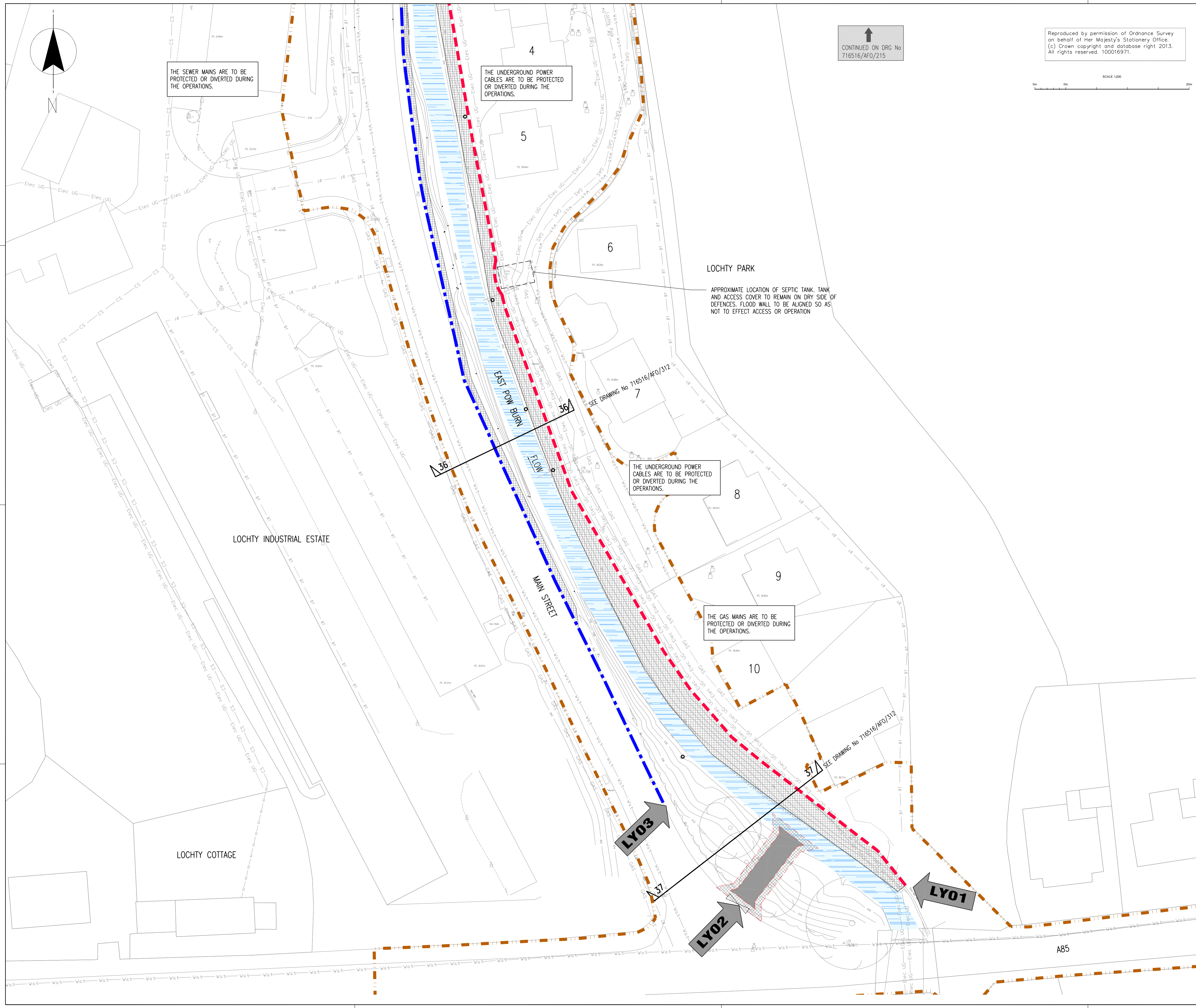
Drawing Title: FLOOD PROTECTION OPERATIONS SHEET 15 OF 15 LOCHTY PARK

**mouchel** building great relationships

Scale (if not 1:200): 1:200

Purpose of Issue: FLOOD PROTECTION OPERATIONS

Office: LIVERPOOL | Tel No: 0151 237-4200 | Drawing No: 716516/AFO/216 | Version: E



LOCHTY PARK

LOCHTY INDUSTRIAL ESTATE

LOCHTY COTTAGE

APPROXIMATE LOCATION OF SEPTIC TANK, TANK AND ACCESS COVER TO REMAIN ON DRY SIDE OF DEFENCES. FLOOD WALL TO BE ALIGNED SO AS NOT TO EFFECT ACCESS OR OPERATION

THE UNDERGROUND POWER CABLES ARE TO BE PROTECTED OR DIVERTED DURING THE OPERATIONS.

THE GAS MAINS ARE TO BE PROTECTED OR DIVERTED DURING THE OPERATIONS.

LY03

LY02

LY01

A85

EAST POW BURN

MAIN STREET

SEE DRAWING No 716516/AFO/312

SEE DRAWING No 716516/AFO/312

36

37

35

37

4

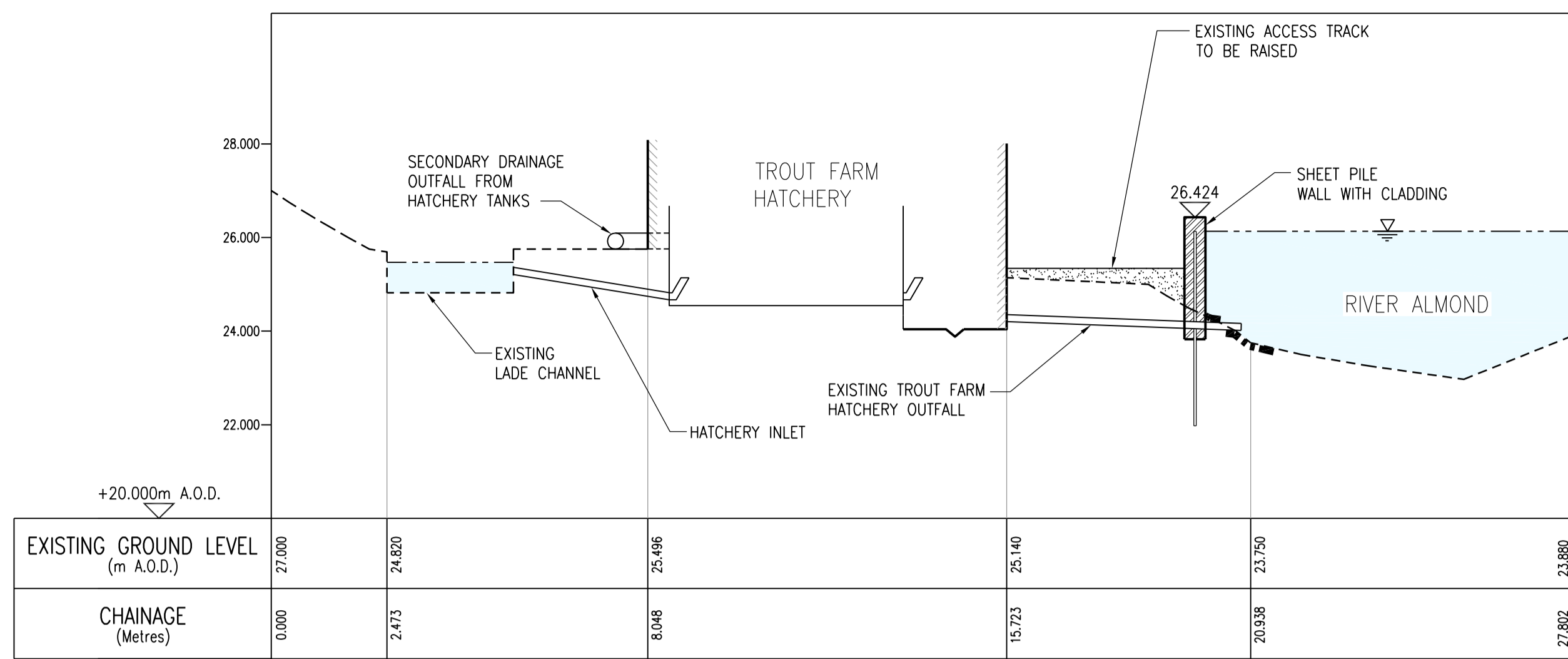
5

6

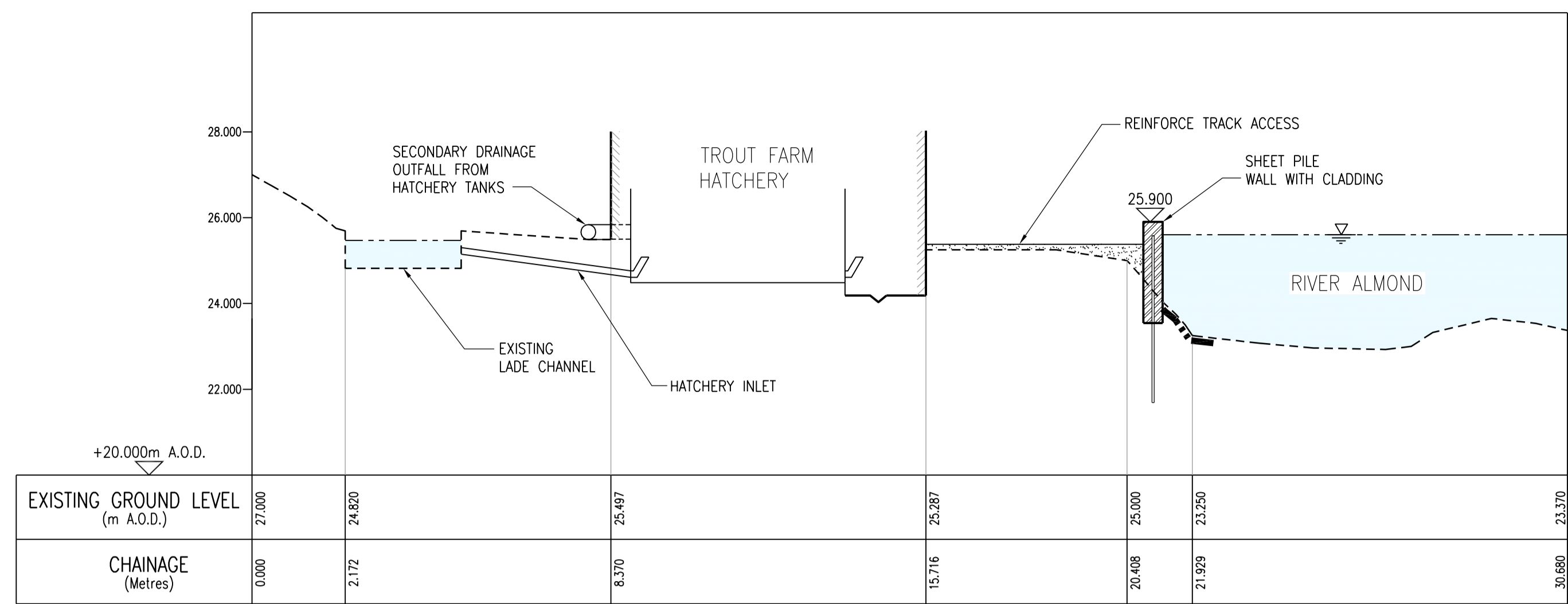
8

9

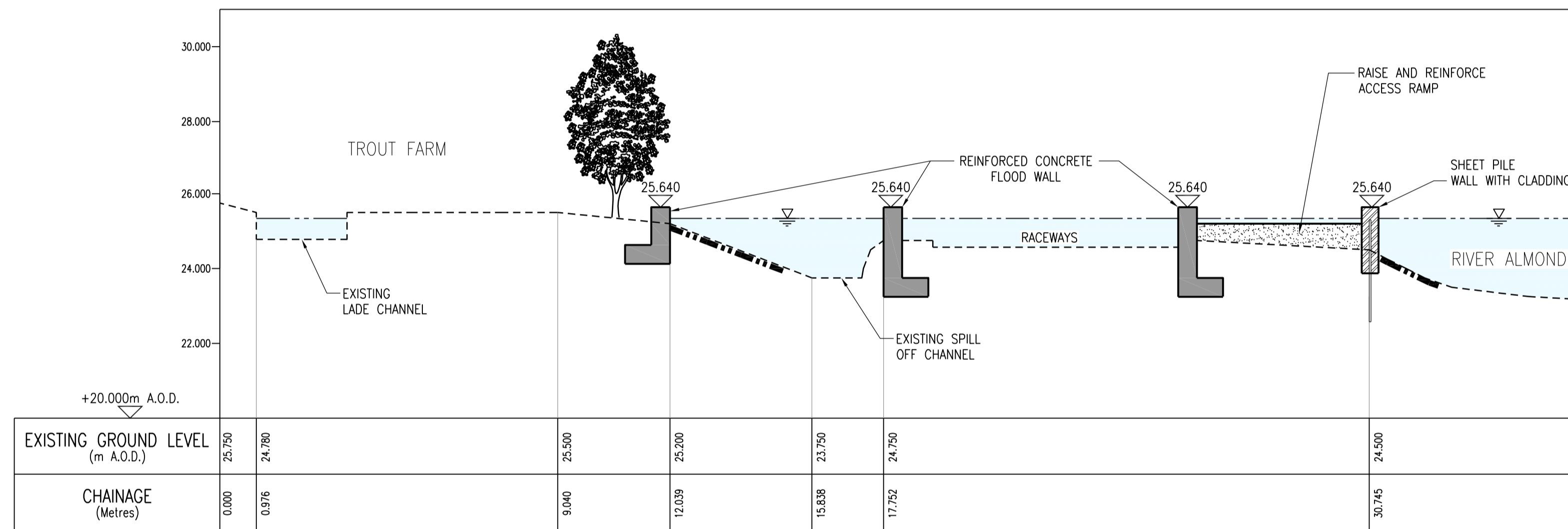
10



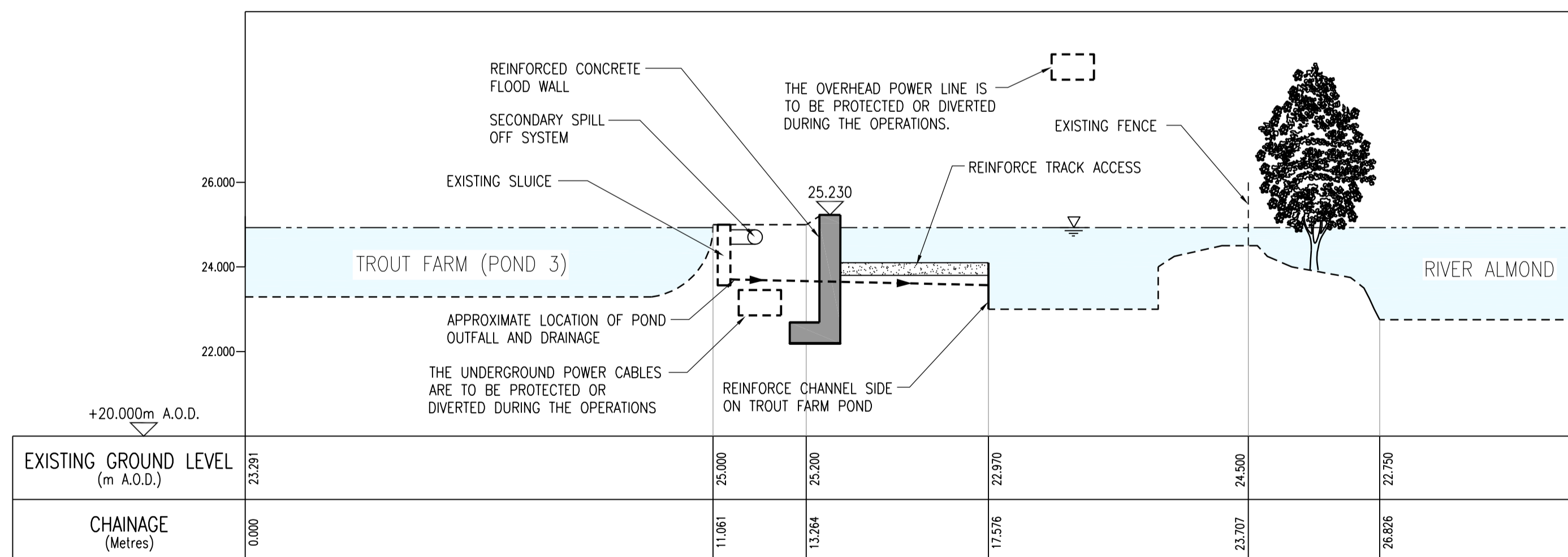
CROSS-SECTION 1-1  
RIVER ALMOND LEFT BANK



CROSS-SECTION 2-2  
RIVER ALMOND LEFT BANK



CROSS-SECTION 3-3  
RIVER ALMOND LEFT BANK



CROSS-SECTION 4-4  
RIVER ALMOND LEFT BANK

**LEGEND**

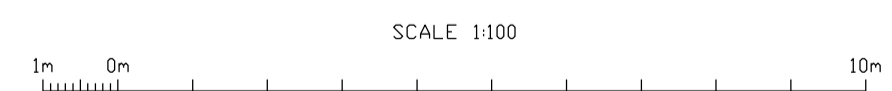
- PROPOSED FLOOD DEFENCE LEVEL
- 1 IN 200 YR TWL
- EXISTING GROUND LEVEL
- PROPOSED GROUND LEVEL
- EROSION PROTECTION
- FLOOD EMBANKMENT WITH IMPERMEABLE CORE
- REINFORCED CONCRETE FLOOD WALL CAST WITH A SUITABLE AESTHETIC FINISH
- SHEET PILE WALL WITH CLADDING
- SHEET PILE WALL
- GRAVEL

**DRAWING REFERENCES**

- 716516/AFO/201 - FLOOD PROTECTION OPERATIONS SHEET 2 OF 15 - COLLEGE MILL TROUT FARM
- 716516/AFO/202 - FLOOD PROTECTION OPERATIONS SHEET 3 OF 15 - COLLEGE MILL TROUT FARM
- 716516/AFO/203 - FLOOD PROTECTION OPERATIONS SHEET 4 OF 15 - COLLEGE MILL TROUT FARM

THIS IS THE PLAN MARKED **716516/AFO/301** REFERRED TO IN THE FLOOD PROTECTION SCHEME FOR ALMONDBANK FLOOD PROTECTION SCHEME 2013

PROPER OFFICER  
 (Signature)  
 FOR PERTH AND KINROSS COUNCIL  
 (date)



**NOTES**

- THESE PLANS ARE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 60 AND SCHEDULE 2 OF THE FLOOD RISK MANAGEMENT (SCOTLAND) ACT 2009. THESE PLANS ARE TO BE READ IN CONJUNCTION WITH THE ALMONDBANK FLOOD PROTECTION SCHEME 2013.
- OPERATIONS ALONG THE LENGTH OF THE RIVER ALMOND AND THE EAST POW BURN WILL BE FINISHED WITH A SCHEME OF PLANTING AND LANDSCAPING.
- ALL OUTFALLS WHICH DISCHARGE TO THE RIVER ALMOND AND THE EAST POW BURN IDENTIFIED WITHIN THE OPERATIONS, WILL INCORPORATE APPROPRIATE BACK FLOW PREVENTION MEASURES.
- INFORMATION RECEIVED FROM STATUTORY UNDERTAKERS HAS BEEN USED TO IDENTIFY LOCATIONS OF SERVICES, EXACT LOCATIONS OF THESE SERVICES WILL BE DETERMINED DURING DETAILED DESIGN.

Version	Amendment	Drawn Date	Checked Date	Approved Date
E	CLIENT AMENDMENTS	M.CHAMBERS 28.06.13	P.LAMBERT 28.06.13	N.COOKIE 28.06.13
D	CLIENT AMENDMENTS	S.MCDULLOCH 29.05.13	P.LAMBERT 29.05.13	N.COOKIE 29.05.13
C	CLIENT AMENDMENTS	S.MCDULLOCH 03.05.13	P.LAMBERT 03.05.13	N.COOKIE 03.05.13
B	FOR INFORMATION	M.CHAMBERS 15.02.13	P.LAMBERT 15.02.13	N.COOKIE 15.02.13
A	FOR INFORMATION	S.MCDULLOCH MAY 2012	M.CHAMBERS MAY 2012	N.COOKIE MAY 2012

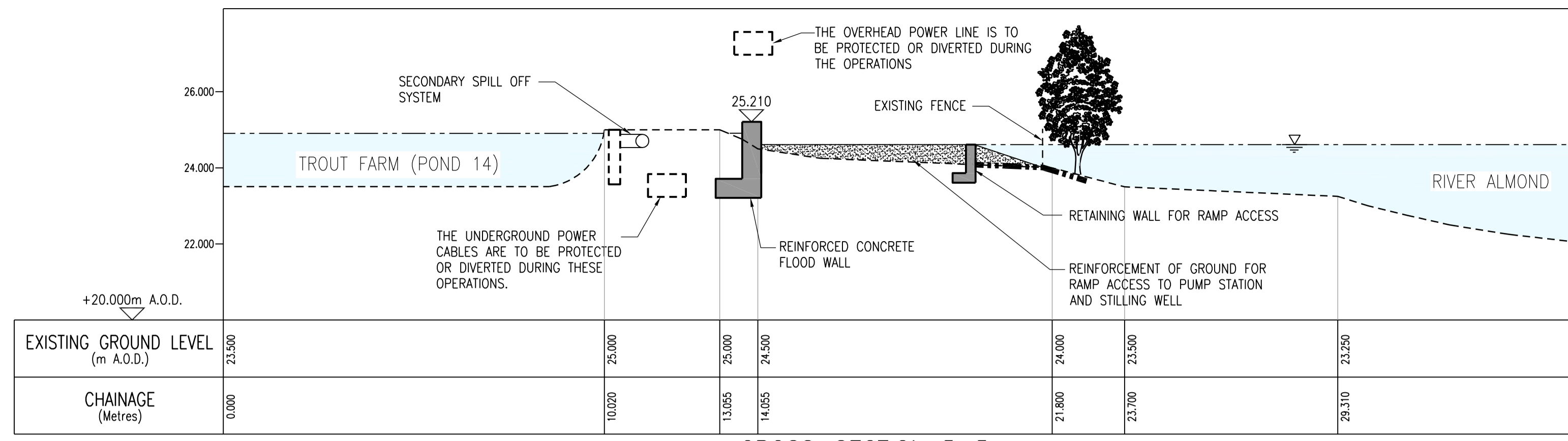
Project ALMONDBANK FLOOD PROTECTION SCHEME  
 Drawing Title FLOOD PROTECTION OPERATIONS CROSS SECTIONS SHEET 1 OF 11



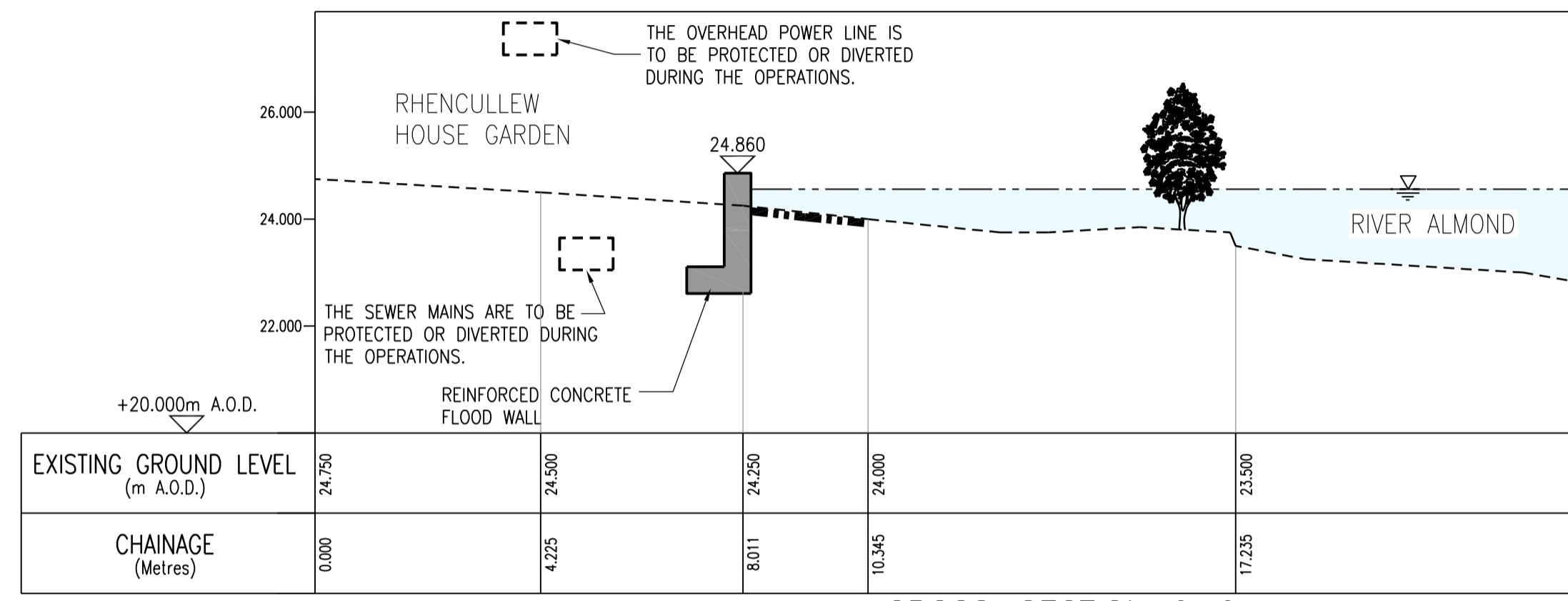
**mouchel** building great relationships

Office LIVERPOOL Tel No (0151) 237-4200

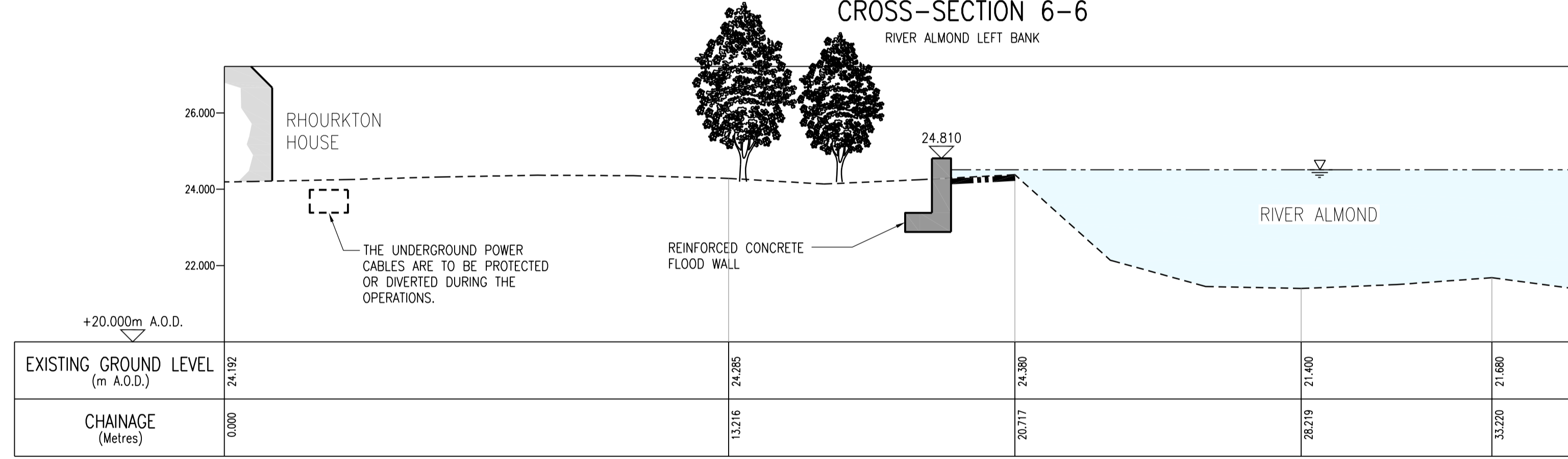
Scales (at A1 size) 1:100  
 Purpose of Issue FLOOD PROTECTION OPERATIONS  
 Drawing No 716516/AFO/301 Version E



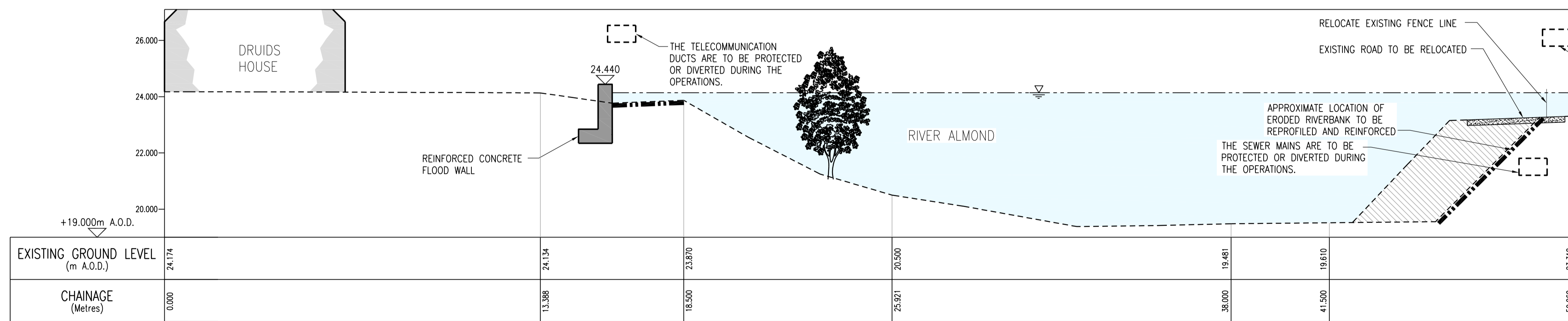
CROSS-SECTION 5-5  
RIVER ALMOND LEFT BANK



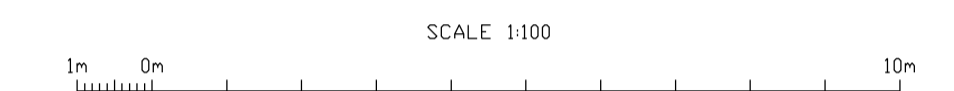
CROSS-SECTION 6-6  
RIVER ALMOND LEFT BANK



CROSS-SECTION 7-7  
RIVER ALMOND LEFT BANK



CROSS-SECTION 8-8 RIVER ALMOND



**LEGEND**

- 25.000 PROPOSED FLOOD DEFENCE LEVEL
- 1 IN 200 YR TWL
- EXISTING GROUND LEVEL
- PROPOSED GROUND LEVEL
- EROSION PROTECTION
- FLOOD EMBANKMENT WITH IMPERMEABLE CORE
- REINFORCED CONCRETE FLOOD WALL CAST WITH A SUITABLE AESTHETIC FINISH
- SHEET PILE WALL WITH CLADDING
- SHEET PILE WALL
- GRAVEL
- AREA OF EROSION

**DRAWING REFERENCES**

- 716516/AF0/204 - FLOOD PROTECTION OPERATIONS SHEET 5 OF 15 TROUT FARM, BOWLING GREEN & PLAYING FIELD FLOOD STORAGE AREA
- 716516/AF0/205 - FLOOD PROTECTION OPERATIONS SHEET 6 OF 15 PLAYING FIELD FLOOD STORAGE AREA

THIS IS THE PLAN MARKED **716516/AF0/302** REFERRED TO IN THE FLOOD PROTECTION SCHEME FOR ALMONDBANK FLOOD PROTECTION SCHEME 2013

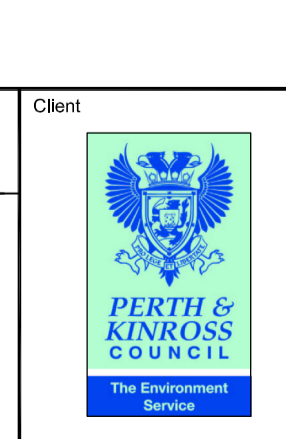
PROPER OFFICER  
 (Signature)  
 FOR PERTH AND KINROSS COUNCIL  
 (date)

- NOTES**
- THESE PLANS ARE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 60 AND SCHEDULE 2 OF THE FLOOD RISK MANAGEMENT (SCOTLAND) ACT 2009.
  - THESE PLANS ARE TO BE READ IN CONJUNCTION WITH THE ALMONDBANK FLOOD PROTECTION SCHEME 2013.
  - OPERATIONS ALONG THE LENGTH OF THE RIVER ALMOND AND THE EAST POW BURN WILL BE FINISHED WITH A SCHEME OF PLANTING AND LANDSCAPING.
  - ALL OUTFALLS WHICH DISCHARGE TO THE RIVER ALMOND AND THE EAST POW BURN IDENTIFIED WITHIN THE OPERATIONS, WILL INCORPORATE APPROPRIATE BACK FLOW PREVENTION MEASURES.
  - INFORMATION RECEIVED FROM STATUTORY UNDERTAKERS HAS BEEN USED TO IDENTIFY LOCATIONS OF SERVICES, EXACT LOCATIONS OF THESE SERVICES WILL BE DETERMINED DURING DETAILED DESIGN.

E	CLIENT AMENDMENTS	M.CHAMBERS 28.06.13	P.LAMBERT 28.06.13	N.COOKE 28.06.13
D	CLIENT AMENDMENTS	S.MCDULLOCH 29.05.13	P.LAMBERT 29.05.13	N.COOKE 29.05.13
C	CLIENT AMENDMENTS	S.MCDULLOCH 03.05.13	P.LAMBERT 03.05.13	N.COOKE 03.05.13
B	FOR INFORMATION	M.CHAMBERS 15.02.13	P.LAMBERT 15.02.13	N.COOKE 15.02.13
A	FOR INFORMATION	S.MCDULLOCH MAY 2012	M.CHAMBERS MAY 2012	N.COOKE MAY 2012
Version	Amendment	Drawn Date	Checked Date	Approved Date

Project: ALMONDBANK FLOOD PROTECTION SCHEME

Drawing Title: FLOOD PROTECTION OPERATIONS CROSS SECTIONS SHEET 2 OF 11



**mouchel** building great relationships

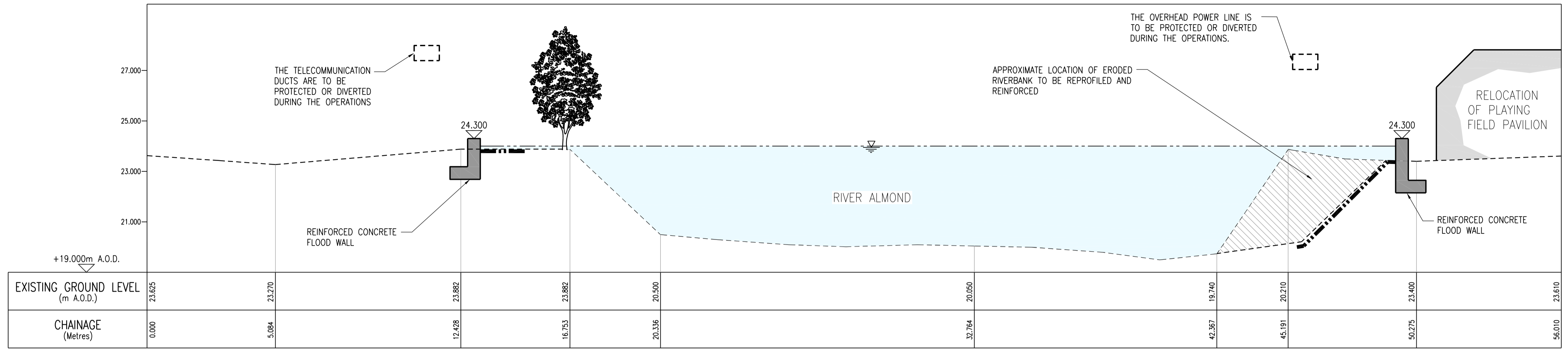
Office: LIVERPOOL Tel No: (0151) 237-4200

Client: PERTH & KINROSS COUNCIL

Scales (at A1 size): 1:100

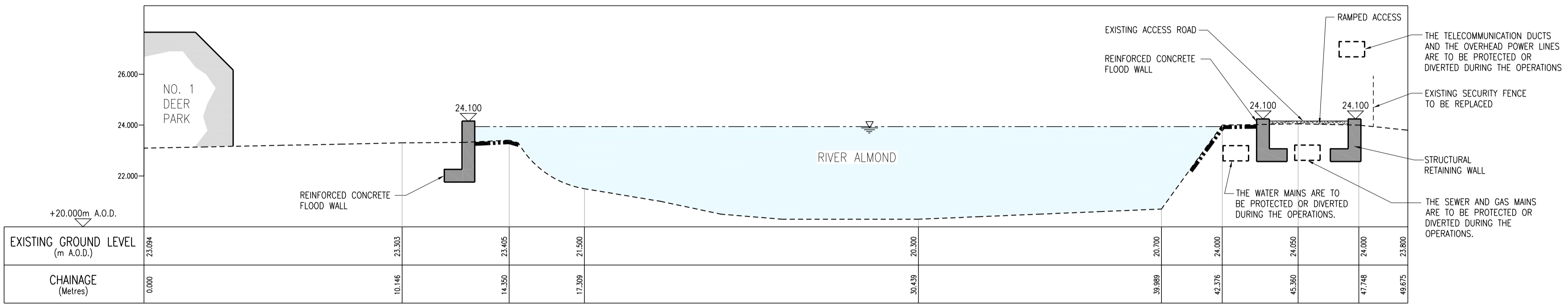
Purpose of Issue: FLOOD PROTECTION OPERATIONS

Drawing No: 716516/AF0/302 Version: E



CROSS-SECTION 9-9  
RIVER ALMOND

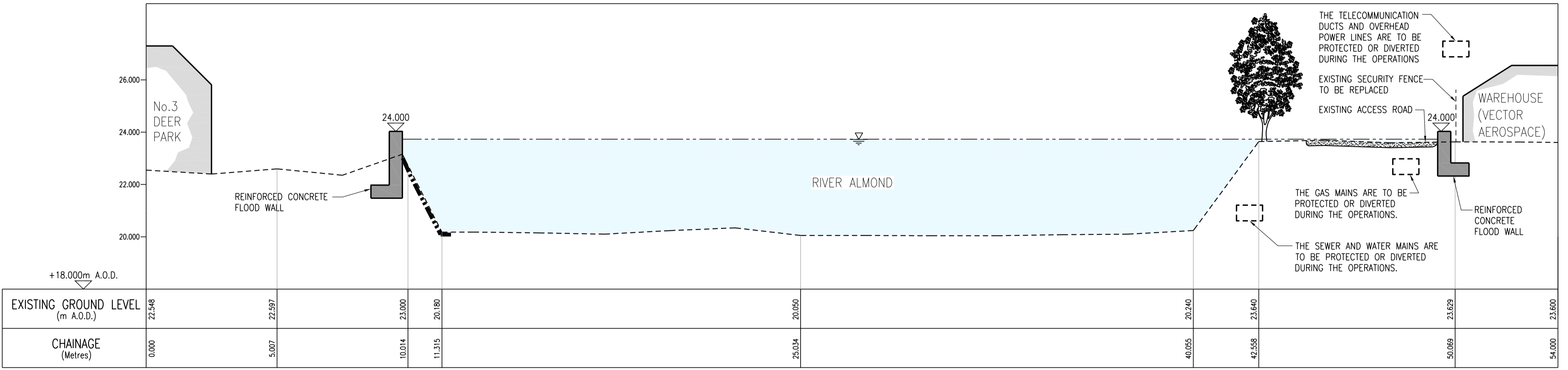
SCALE 1:100  
1m 0m 10m



CROSS-SECTION 10-10  
RIVER ALMOND

### LEGEND

- PROPOSED FLOOD DEFENCE LEVEL
- 1 IN 200 YR TWL
- EXISTING GROUND LEVEL
- PROPOSED GROUND LEVEL
- EROSION PROTECTION
- FLOOD EMBANKMENT WITH IMPERMEABLE CORE
- REINFORCED CONCRETE FLOOD WALL CAST WITH A SUITABLE AESTHETIC FINISH
- SHEET PILE WALL WITH CLADDING
- SHEET PILE WALL
- GRAVEL
- AREA OF EROSION



CROSS-SECTION 11-11  
RIVER ALMOND

### DRAWING REFERENCES

716516/AFO/204	FLOOD PROTECTION OPERATIONS SHEET 5 OF 15 - TROUT FARM, BOWLING GREEN & PLAYING FIELD FLOOD STORAGE AREA.
716516/AFO/206	FLOOD PROTECTION OPERATIONS SHEET 7 OF 15 - VECTOR AEROSPACE AND PLAYING FIELD FLOOD STORAGE AREA
716516/AFO/207	FLOOD PROTECTION OPERATIONS SHEET 8 OF 15 - RIVER ALMOND FOOTBRIDGE
716516/AFO/208	FLOOD PROTECTION OPERATIONS SHEET 9 OF 15 - DEER PARK & VECTOR AEROSPACE

THIS IS THE PLAN MARKED **716516/AFO/303** REFERRED TO IN THE FLOOD PROTECTION SCHEME FOR ALMONDBANK FLOOD PROTECTION SCHEME 2013

PROPER OFFICER

(Signature)

FOR PERTH AND KINROSS COUNCIL

(date)

- ### NOTES
- THESE PLANS ARE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 60 AND SCHEDULE 2 OF THE FLOOD RISK MANAGEMENT (SCOTLAND) ACT 2009. THESE PLANS ARE TO BE READ IN CONJUNCTION WITH THE ALMONDBANK FLOOD PROTECTION SCHEME 2013.
  - OPERATIONS ALONG THE LENGTH OF THE RIVER ALMOND AND THE EAST POW BURN WILL BE FINISHED WITH A SCHEME OF PLANTING AND LANDSCAPING.
  - ALL OUTFALLS WHICH DISCHARGE TO THE RIVER ALMOND AND THE EAST POW BURN IDENTIFIED WITHIN THE OPERATIONS, WILL INCORPORATE APPROPRIATE BACK FLOW PREVENTION MEASURES.
  - INFORMATION RECEIVED FROM STATUTORY UNDERTAKERS HAS BEEN USED TO IDENTIFY LOCATIONS OF SERVICES, EXACT LOCATIONS OF THESE SERVICES WILL BE DETERMINED DURING DETAILED DESIGN.

Version	Amendment	Drawn Date	Checked Date	Approved Date
E	CLIENT AMENDMENTS	M.CHAMBERS 28.06.13	P.LAMBERT 28.06.13	N.COOKIE 28.06.13
D	CLIENT AMENDMENTS	S.MCDULLOCH 29.05.13	P.LAMBERT 29.05.13	N.COOKIE 29.05.13
C	CLIENT AMENDMENTS	S.MCDULLOCH 03.05.13	P.LAMBERT 03.05.13	N.COOKIE 03.05.13
B	FOR INFORMATION	M.CHAMBERS 15.02.13	P.LAMBERT 15.02.13	N.COOKIE 15.02.13
A	FOR INFORMATION	S.MCDULLOCH MAY 2012	M.CHAMBERS MAY 2012	N.COOKIE MAY 2012

Project: ALMONDBANK FLOOD PROTECTION SCHEME

Drawing Title: FLOOD PROTECTION OPERATIONS CROSS SECTIONS SHEET 3 OF 11



Client: PERTH & KINROSS COUNCIL

Office: LIVERPOOL

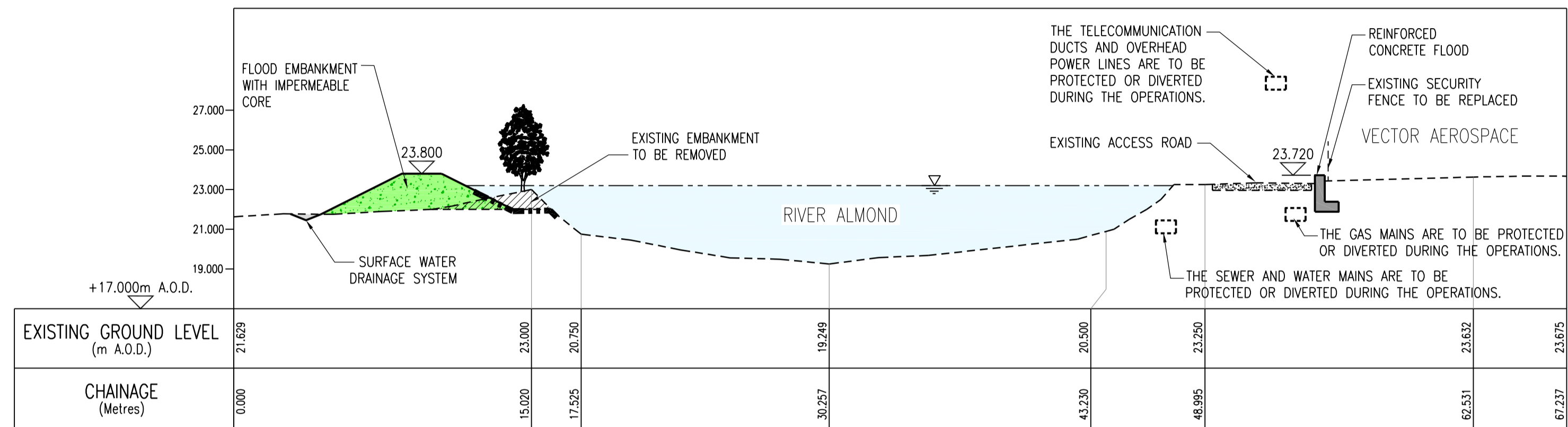
Tel No: (0151) 237-4200

Scale: 1:100

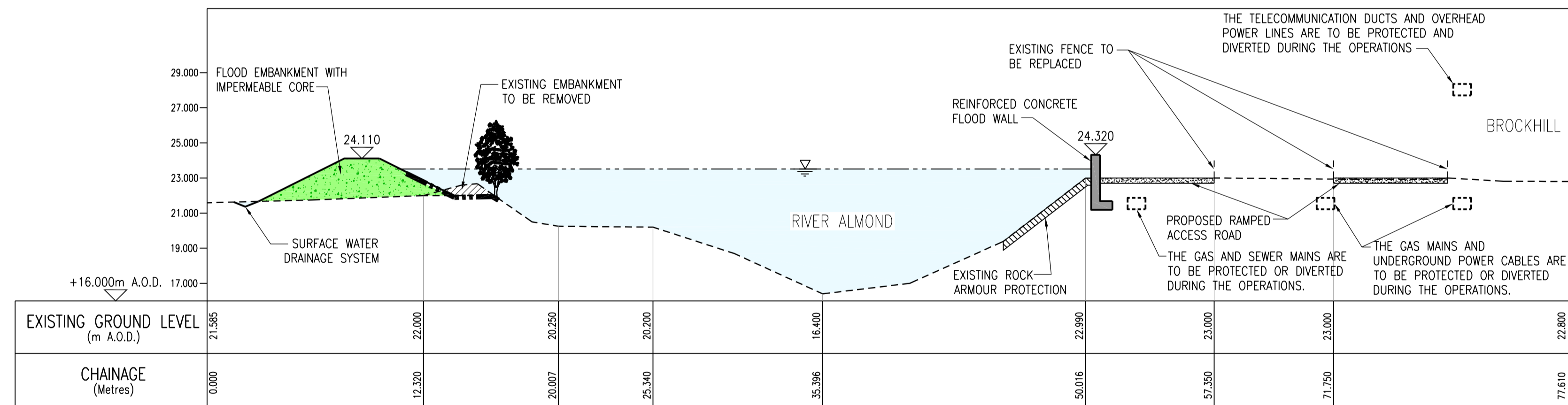
Purpose of Issue: FLOOD PROTECTION OPERATIONS

Drawing No: 716516/AFO/303

Version: E



CROSS-SECTION 12-12  
RIVER ALMOND



CROSS-SECTION 13-13  
RIVER ALMOND

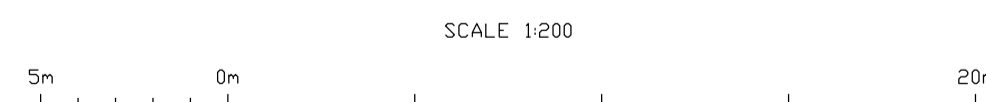
LEGEND	
	PROPOSED FLOOD DEFENCE LEVEL
	1 IN 200 YR TWL
	EXISTING GROUND LEVEL
	PROPOSED GROUND LEVEL
	EROSION PROTECTION
	EXISTING ROCK ARMOUR PROTECTION
	FLOOD EMBANKMENT WITH IMPERMEABLE CORE
	REINFORCED CONCRETE FLOOD WALL CAST WITH A SUITABLE AESTHETIC FINISH
	SHEET PILE WALL WITH CLADDING
	SHEET PILE WALL

DRAWING REFERENCES

- 716516/AF0/208 - FLOOD PROTECTION OPERATIONS SHEET 9 OF 15 - DEER PARK & VECTOR AEROSPACE
- 716516/AF0/212 - FLOOD PROTECTION OPERATIONS SHEET 11 OF 15 - CONFLUENCE OF RIVER ALMOND & EAST POW BURN
- 716516/AF0/213 - FLOOD PROTECTION OPERATIONS SHEET 12 OF 15 - CONFLUENCE OF RIVER ALMOND & EAST POW BURN

THIS IS THE PLAN MARKED 716516/AF0/304 REFERRED TO IN THE FLOOD PROTECTION SCHEME FOR ALMONDBANK FLOOD PROTECTION SCHEME 2013

PROPER OFFICER  
 (Signature)  
 FOR PERTH AND KINROSS COUNCIL  
 (date)

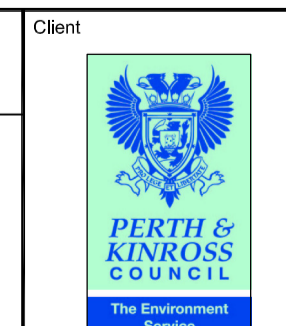


NOTES

- THESE PLANS ARE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 60 AND SCHEDULE 2 OF THE FLOOD RISK MANAGEMENT (SCOTLAND) ACT 2009.
- THESE PLANS ARE TO BE READ IN CONJUNCTION WITH THE ALMONDBANK FLOOD PROTECTION SCHEME 2013.
- OPERATIONS ALONG THE LENGTH OF THE RIVER ALMOND AND THE EAST POW BURN WILL BE FINISHED WITH A SCHEME OF PLANTING AND LANDSCAPING.
- ALL OUTFALLS WHICH DISCHARGE TO THE RIVER ALMOND AND THE EAST POW BURN IDENTIFIED WITHIN THE OPERATIONS, WILL INCORPORATE APPROPRIATE BACK FLOW PREVENTION MEASURES.
- INFORMATION RECEIVED FROM STATUTORY UNDERTAKERS HAS BEEN USED TO IDENTIFY LOCATIONS OF SERVICES, EXACT LOCATIONS OF THESE SERVICES WILL BE DETERMINED DURING DETAILED DESIGN.

Version	Amendment	Drawn Date	Checked Date	Approved Date
E	CLIENT AMENDMENTS	M.CHAMBERS 28.06.13	P.LAMBERT 28.06.13	N.COOKE 28.06.13
D	CLIENT AMENDMENTS	S.MCDULLOCH 29.05.13	P.LAMBERT 29.05.13	N.COOKE 29.05.13
C	CLIENT AMENDMENTS	S.MCDULLOCH 03.05.13	P.LAMBERT 03.05.13	N.COOKE 03.05.13
B	FOR INFORMATION	M.CHAMBERS 15.02.13	P.LAMBERT 15.02.13	N.COOKE 15.02.13
A	FOR INFORMATION	S.MCDULLOCH MAY 2012	M.CHAMBERS MAY 2012	N.COOKE MAY 2012

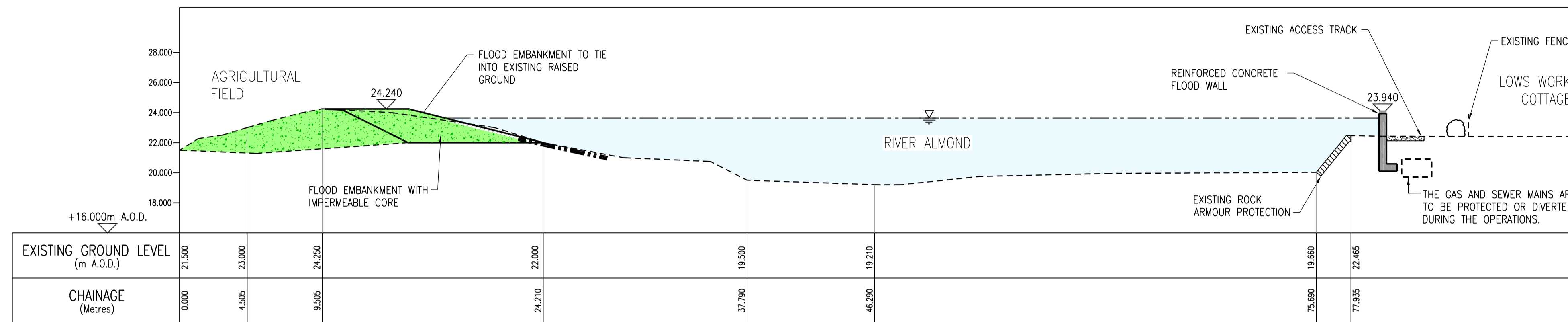
Project ALMONDBANK FLOOD PROTECTION SCHEME  
 Drawing Title FLOOD PROTECTION OPERATIONS CROSS SECTIONS SHEET 4 OF 11



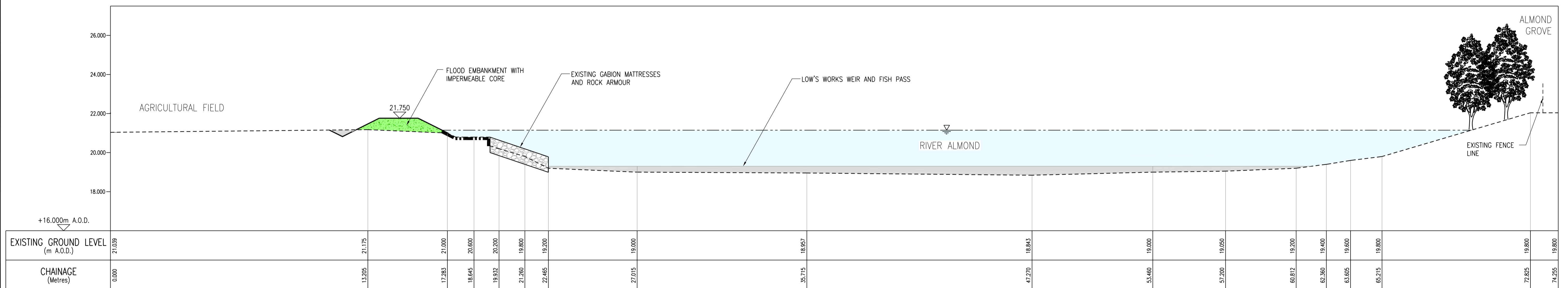
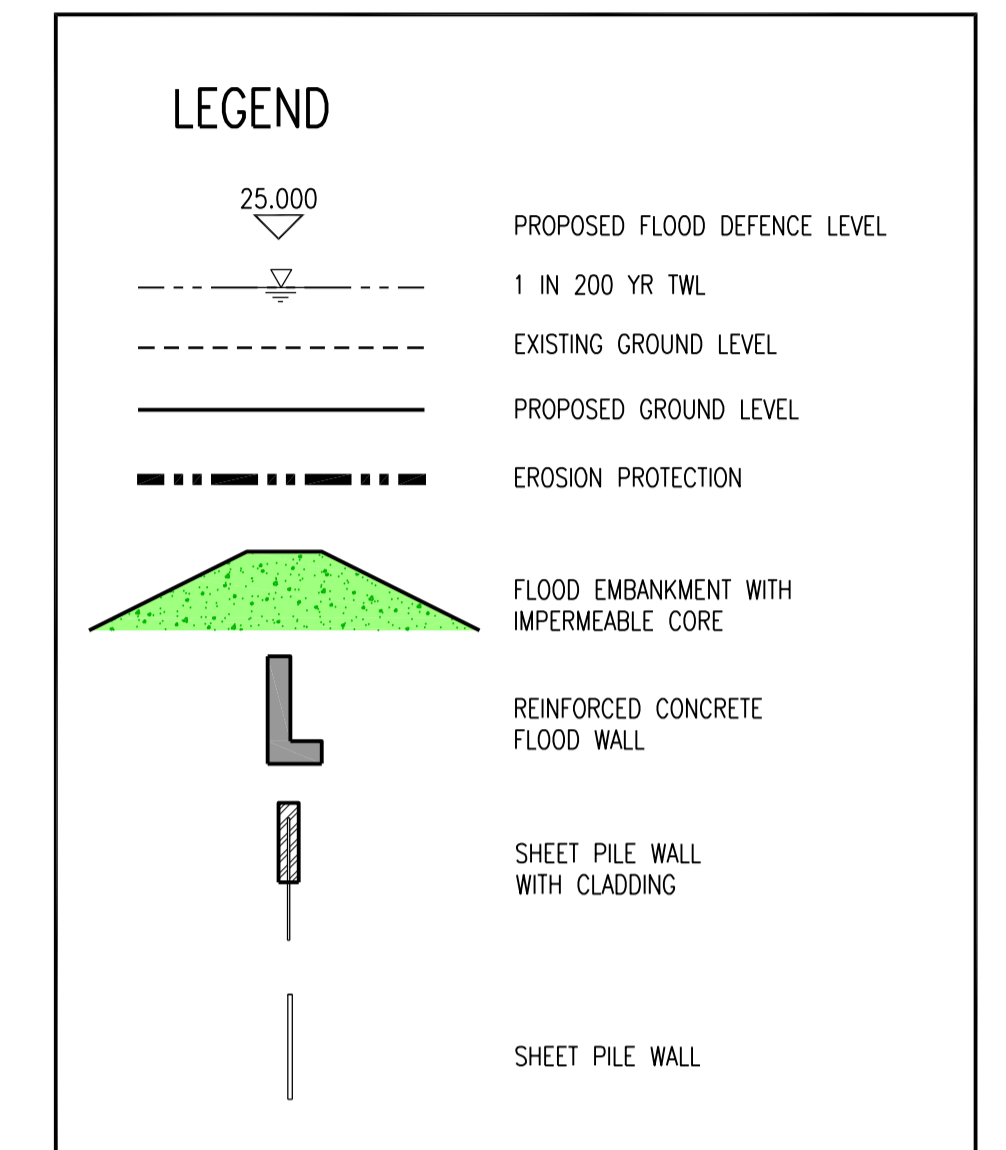
Client: PERTH & KINROSS COUNCIL

mouchel building great relationships

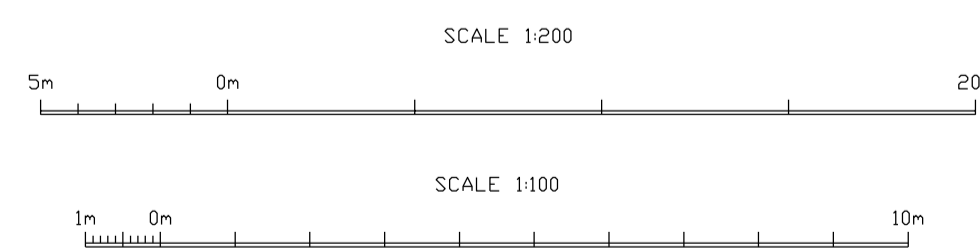
Office: LIVERPOOL | Tel No: (0151) 237-4200 | Scales (at A1 size): 1:200 | Purpose of Issue: FLOOD PROTECTION OPERATIONS | Drawing No: 716516/AF0/304 | Version: E



CROSS-SECTION 14-14  
RIVER ALMOND, SCALE 1:200



CROSS-SECTION 15-15  
RIVER ALMOND, SCALE 1:100



DRAWING REFERENCES			
716516/AFO/208	- FLOOD PROTECTION OPERATIONS SHEET 9 OF 15 - DEER PARK & VECTOR AEROSPACE	M.CHAMBERS 28.06.13	P.LAMBERT 28.06.13
716516/AFO/209	- FLOOD PROTECTION OPERATIONS SHEET 10 OF 15 - CRAIGNEUK EAST & WEST	S.MCDULLOCH 29.05.13	P.LAMBERT 29.05.13
716516/AFO/212	- FLOOD PROTECTION OPERATIONS SHEET 11 OF 15 - CONFLUENCE OF RIVER ALMOND & EAST POW BURN	M.CHAMBERS 15.02.13	P.LAMBERT 15.02.13

THIS IS THE PLAN MARKED 716516/AFO/305 REFERRED TO IN THE FLOOD PROTECTION SCHEME FOR ALMONDBANK FLOOD PROTECTION SCHEME 2013

PROPER OFFICER  
.....  
(Signature)  
FOR PERTH AND KINROSS COUNCIL  
.....  
(date)

NOTES

- THESE PLANS ARE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 60 AND SCHEDULE 2 OF THE FLOOD RISK MANAGEMENT (SCOTLAND) ACT 2009.
- THESE PLANS ARE TO BE READ IN CONJUNCTION WITH THE ALMONDBANK FLOOD PROTECTION SCHEME 2013.
- OPERATIONS ALONG THE LENGTH OF THE RIVER ALMOND AND THE EAST POW BURN WILL BE FINISHED WITH A SCHEME OF PLANTING AND LANDSCAPING.
- ALL OUTFALLS WHICH DISCHARGE TO THE RIVER ALMOND AND THE EAST POW BURN IDENTIFIED WITHIN THE OPERATIONS, WILL INCORPORATE APPROPRIATE BACK FLOW PREVENTION MEASURES.
- INFORMATION RECEIVED FROM STATUTORY UNDERTAKERS HAS BEEN USED TO IDENTIFY LOCATIONS OF SERVICES, EXACT LOCATIONS OF THESE SERVICES WILL BE DETERMINED DURING DETAILED DESIGN.

Version	Amendment	Drawn Date	Checked Date	Approved Date
E	CLIENT AMENDMENTS	M.CHAMBERS 28.06.13	P.LAMBERT 28.06.13	N.COOKE 28.06.13
D	CLIENT AMENDMENTS	S.MCDULLOCH 29.05.13	P.LAMBERT 29.05.13	N.COOKE 29.05.13
C	CLIENT AMENDMENTS	S.MCDULLOCH 03.05.13	P.LAMBERT 03.05.13	N.COOKE 03.05.13
B	FOR INFORMATION	M.CHAMBERS 15.02.13	P.LAMBERT 15.02.13	N.COOKE 15.02.13
A	FOR INFORMATION	S.MCDULLOCH MAY 2012	M.CHAMBERS MAY 2012	N.COOKE MAY 2012

Project ALMONDBANK FLOOD PROTECTION SCHEME

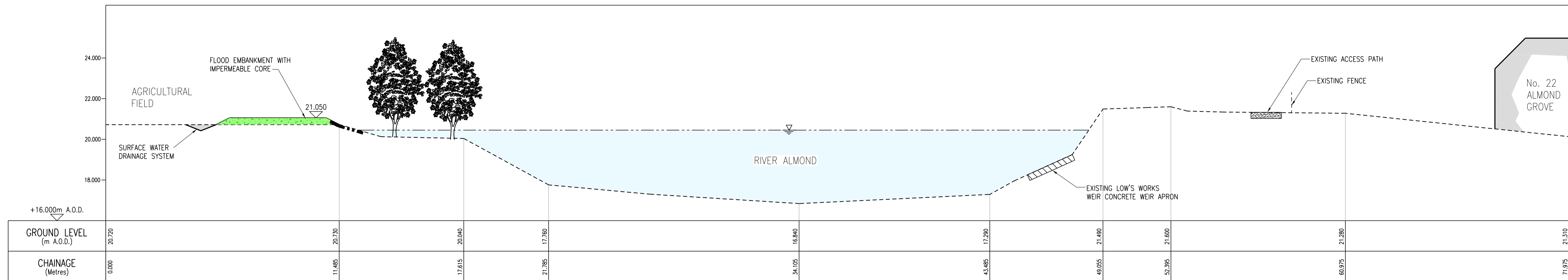
Drawing Title FLOOD PROTECTION OPERATIONS CROSS SECTIONS SHEET 5 OF 11



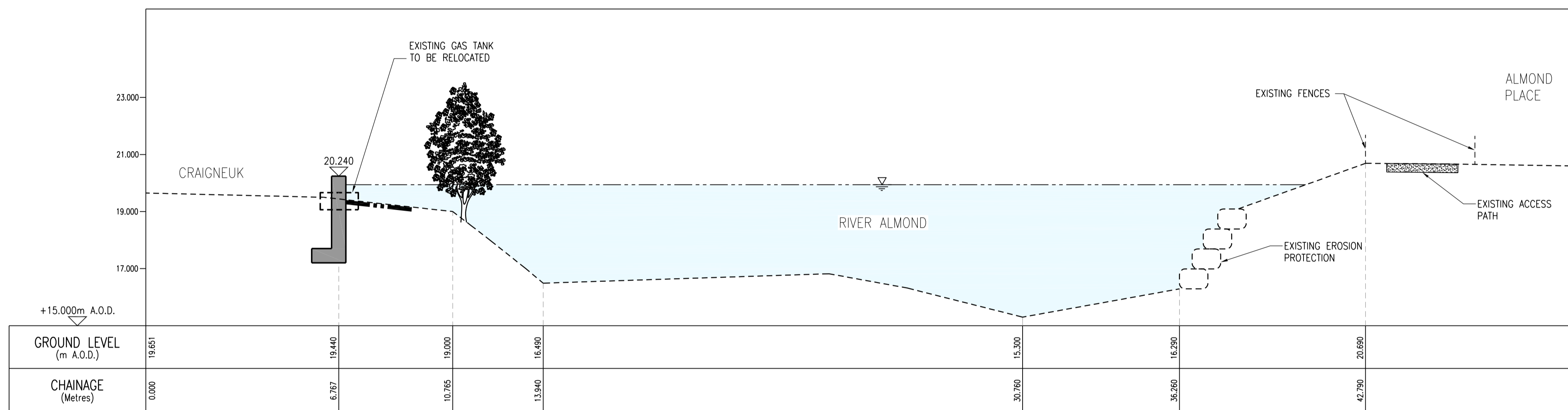
mouchel  
building great relationships

Office LIVERPOOL  
Tel No (0151) 237-4200

Scales (at A1 size) AS SHOWN  
Purpose of Issue FLOOD PROTECTION OPERATIONS  
Drawing No 716516/AFO/305  
Version E



CROSS-SECTION 16-16  
RIVER ALMOND



CROSS-SECTION 17-17  
RIVER ALMOND

**LEGEND**

- 25.000: PROPOSED FLOOD DEFENCE LEVEL
- 1 IN 200 YR TWL: 1 IN 200 YR TWL
- EXISTING GROUND LEVEL: EXISTING GROUND LEVEL
- PROPOSED GROUND LEVEL: PROPOSED GROUND LEVEL
- EROSION PROTECTION: EROSION PROTECTION
- FLOOD EMBANKMENT WITH IMPERMEABLE CORE: FLOOD EMBANKMENT WITH IMPERMEABLE CORE
- REINFORCED CONCRETE FLOOD WALL CAST WITH A SUITABLE AESTHETIC FINISH: REINFORCED CONCRETE FLOOD WALL CAST WITH A SUITABLE AESTHETIC FINISH
- SHEET PILE WALL WITH CLADDING: SHEET PILE WALL WITH CLADDING
- SHEET PILE WALL: SHEET PILE WALL

**DRAWING REFERENCES**

716516/AF0/209 - FLOOD PROTECTION OPERATIONS SHEET 10 OF 15 - CRAIGNEUK EAST & WEST

THIS IS THE PLAN MARKED 716516/AF0/306 REFERRED TO IN THE FLOOD PROTECTION SCHEME FOR ALMONDBANK FLOOD PROTECTION SCHEME 2013

PROPER OFFICER  
 (Signature)  
 FOR PERTH AND KINROSS COUNCIL  
 (date)

**NOTES**

- THESE PLANS ARE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 60 AND SCHEDULE 2 OF THE FLOOD RISK MANAGEMENT (SCOTLAND) ACT 2009.
- THESE PLANS ARE TO BE READ IN CONJUNCTION WITH THE ALMONDBANK FLOOD PROTECTION SCHEME 2013.
- OPERATIONS ALONG THE LENGTH OF THE RIVER ALMOND AND THE EAST POW BURN WILL BE FINISHED WITH A SCHEME OF PLANTING AND LANDSCAPING.
- ALL OUTFALLS WHICH DISCHARGE TO THE RIVER ALMOND AND THE EAST POW BURN IDENTIFIED WITHIN THE OPERATIONS, WILL INCORPORATE APPROPRIATE BACK FLOW PREVENTION MEASURES.
- INFORMATION RECEIVED FROM STATUTORY UNDERTAKERS HAS BEEN USED TO IDENTIFY LOCATIONS OF SERVICES, EXACT LOCATIONS OF THESE SERVICES WILL BE DETERMINED DURING DETAILED DESIGN.

Version	Amendment	Drawn Date	Checked Date	Approved Date
E	CLIENT AMENDMENTS	M.CHAMBERS 28.06.13	P.LAMBERT 28.06.13	N.COOKE 28.06.13
D	CLIENT AMENDMENTS	S.MCDULLOCH 30.05.13	P.LAMBERT 30.05.13	N.COOKE 30.05.13
C	CLIENT AMENDMENTS	S.MCDULLOCH 03.05.13	P.LAMBERT 03.05.13	N.COOKE 03.05.13
B	FOR INFORMATION	M.CHAMBERS 15.02.13	P.LAMBERT 15.02.13	N.COOKE 15.02.13
A	FOR INFORMATION	S.MCDULLOCH MAY 2012	M.CHAMBERS MAY 2012	N.COOKE MAY 2012

Project ALMONDBANK FLOOD PROTECTION SCHEME

Drawing Title  
**FLOOD PROTECTION OPERATIONS  
 CROSS SECTIONS SHEET 6 OF 11**

Client



**mouchel**  
 building great relationships

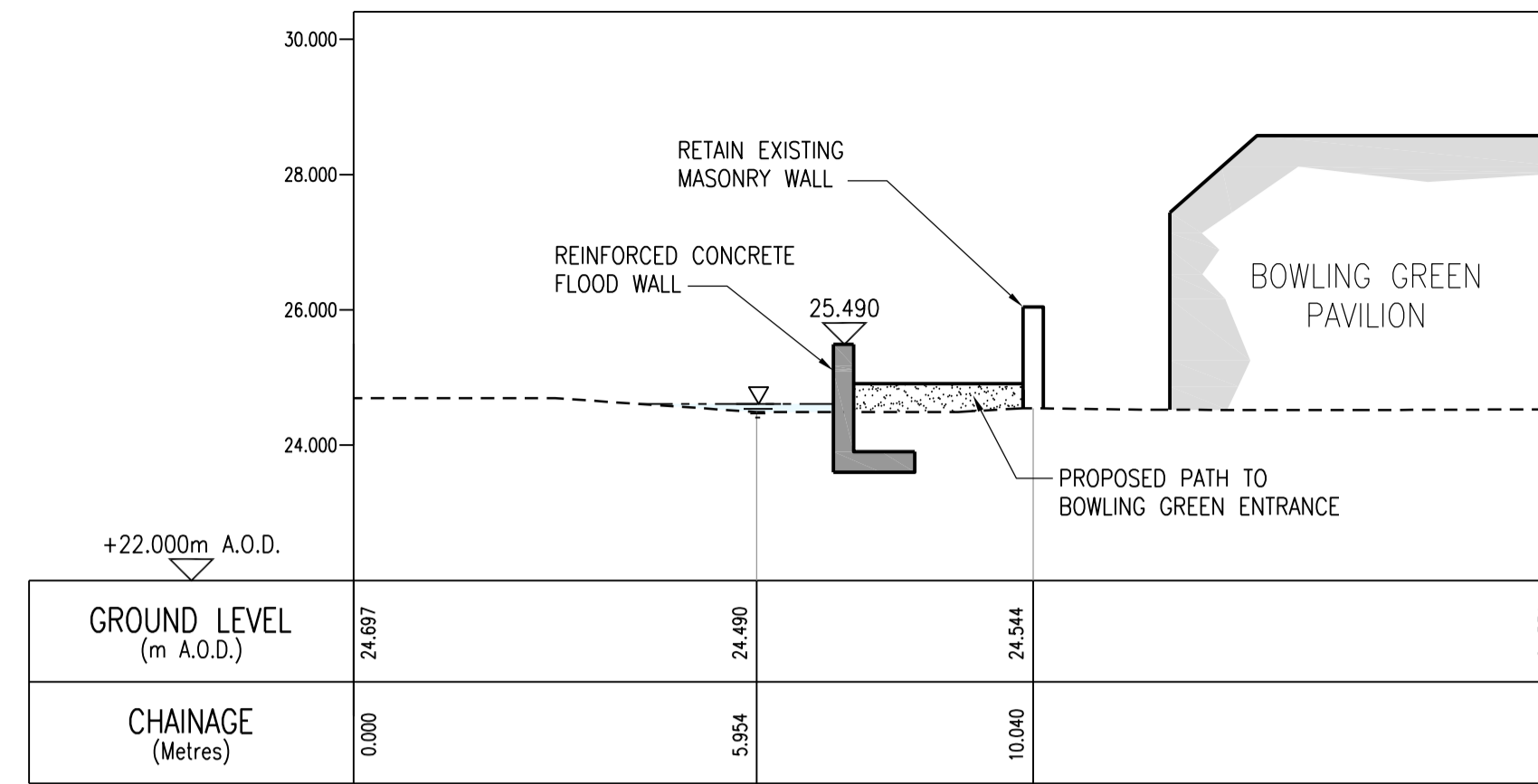
Office LIVERPOOL  
 Tel No (0151) 237-4200

Scales (at A1 size)

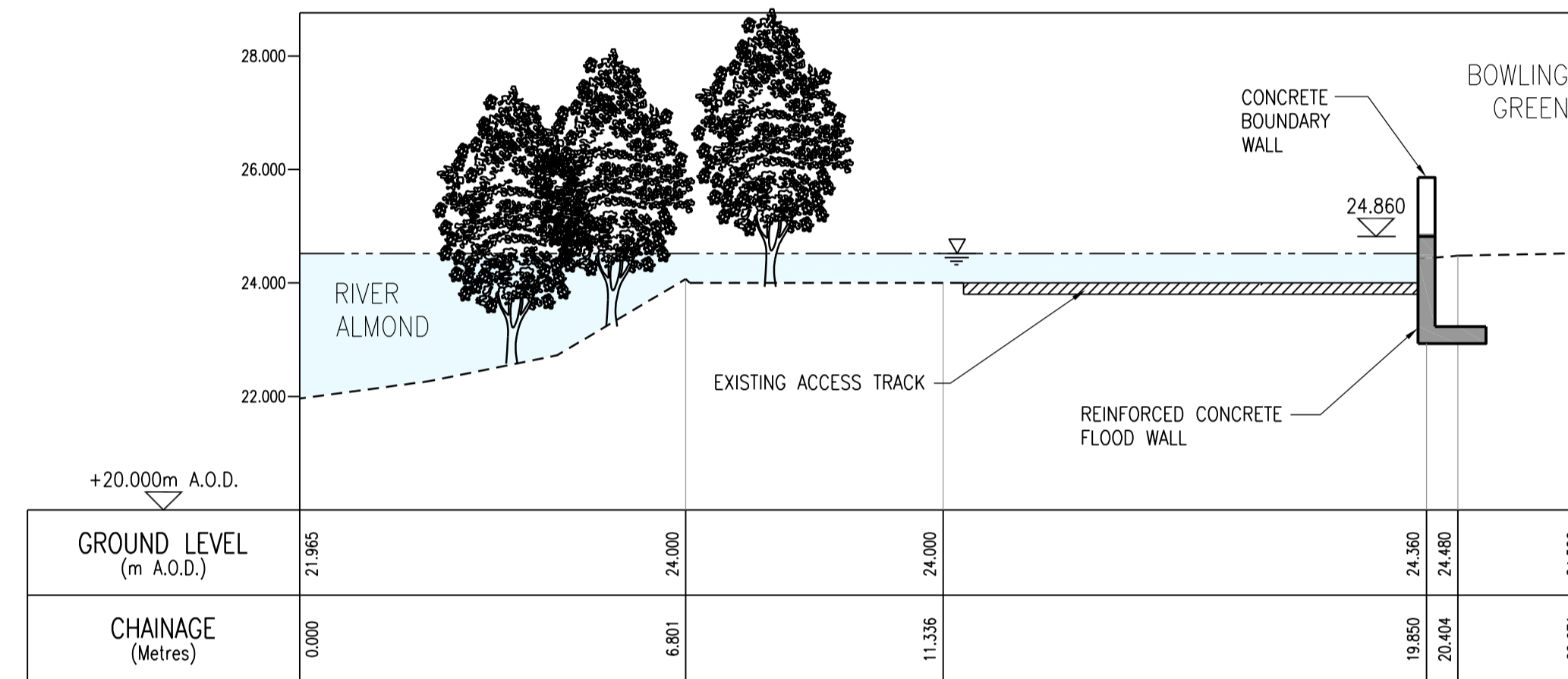
1:100

Purpose of Issue  
 FLOOD PROTECTION OPERATIONS

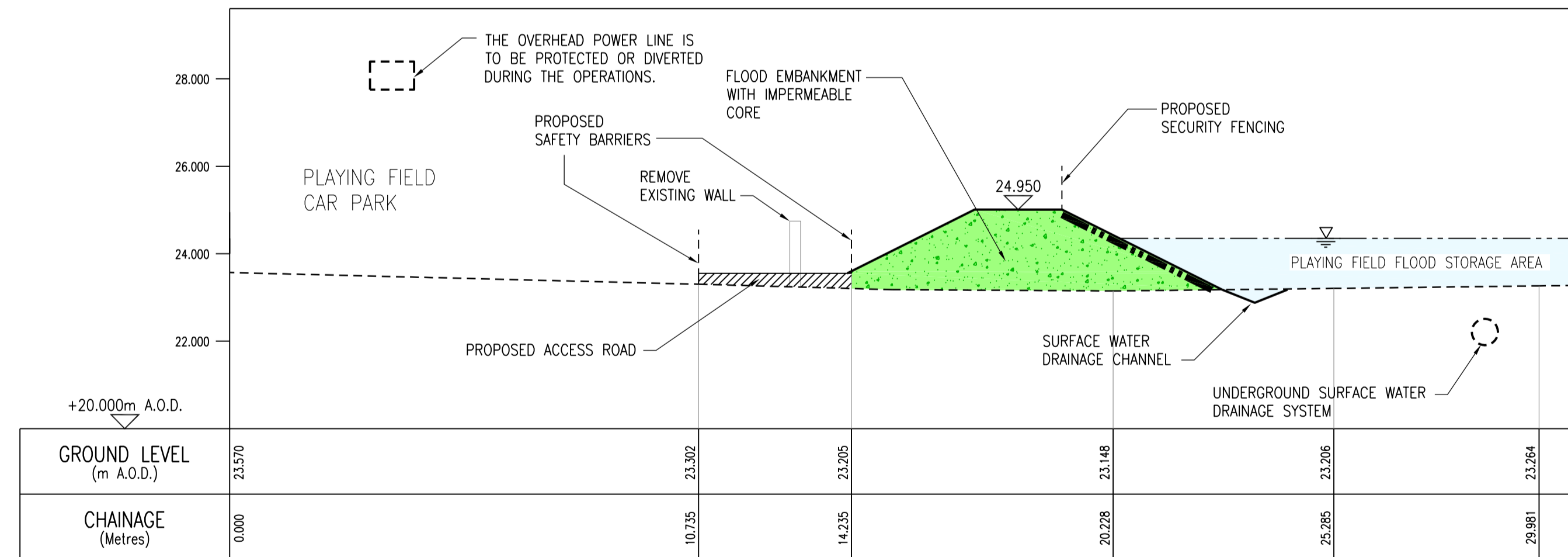
Drawing No 716516/AF0/306  
 Version E



CROSS-SECTION 21-21  
BOWLING GREEN FLOOD WALL



CROSS-SECTION 22-22  
BOWLING GREEN FLOOD WALL



CROSS-SECTION 23-23  
STORAGE AREA, EMBANKMENT

**LEGEND**

- 25.000 PROPOSED FLOOD DEFENCE LEVEL
- 1 IN 200 YR TWL
- EXISTING GROUND LEVEL
- PROPOSED GROUND LEVEL
- EROSION PROTECTION
- FLOOD EMBANKMENT WITH IMPERMEABLE CORE
- REINFORCED CONCRETE FLOOD WALL CAST WITH A SUITABLE AESTHETIC FINISH
- SHEET PILE WALL WITH CLADDING
- SHEET PILE WALL

**DRAWING REFERENCES**

- 716516/AF0/204 - FLOOD PROTECTION OPERATIONS SHEET 5 OF 15 - TROUT FARM, BOWLING GREEN & PLAYING FIELD FLOOD STORAGE AREA.
- 716516/AF0/205 - FLOOD PROTECTION OPERATIONS SHEET 6 OF 15 - PLAYING FIELD FLOOD STORAGE AREA
- 716516/AF0/206 - FLOOD PROTECTION OPERATIONS SHEET 7 OF 15 - VECTOR AEROSPACE AND PLAYING FIELD FLOOD STORAGE AREA
- 716516/AF0/207 - FLOOD PROTECTION OPERATIONS SHEET 8 OF 15 - RIVER ALMOND FOOTBRIDGE

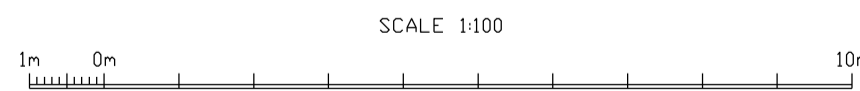
THIS IS THE PLAN MARKED **716516/AF0/308** REFERRED TO IN THE FLOOD PROTECTION SCHEME FOR ALMONDBANK FLOOD PROTECTION SCHEME 2013

PROPER OFFICER

(Signature)

FOR PERTH AND KINROSS COUNCIL

(date)



**NOTES**

1. THESE PLANS ARE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 60 AND SCHEDULE 2 OF THE FLOOD RISK MANAGEMENT (SCOTLAND) ACT 2009.
2. THESE PLANS ARE TO BE READ IN CONJUNCTION WITH THE ALMONDBANK FLOOD PROTECTION SCHEME 2013.
3. OPERATIONS ALONG THE LENGTH OF THE RIVER ALMOND AND THE EAST POW BURN WILL BE FINISHED WITH A SCHEME OF PLANTING AND LANDSCAPING.
4. ALL OUTFALLS WHICH DISCHARGE TO THE RIVER ALMOND AND THE EAST POW BURN IDENTIFIED WITHIN THE OPERATIONS, WILL INCORPORATE APPROPRIATE BACK FLOW PREVENTION MEASURES.
5. INFORMATION RECEIVED FROM STATUTORY UNDERTAKERS HAS BEEN USED TO IDENTIFY LOCATIONS OF SERVICES, EXACT LOCATIONS OF THESE SERVICES WILL BE DETERMINED DURING DETAILED DESIGN.

E	CLIENT AMENDMENTS	M.CHAMBERS 28.06.13	P.LAMBERT 28.06.13	N.COOKE 28.06.13
D	CLIENT AMENDMENTS	S.MCDULLOCH 29.05.13	P.LAMBERT 29.05.13	N.COOKE 29.05.13
C	CLIENT AMENDMENTS	S.MCDULLOCH 03.05.13	P.LAMBERT 03.05.13	N.COOKE 03.05.13
B	FOR INFORMATION	M.CHAMBERS 15.02.13	P.LAMBERT 15.02.13	N.COOKE 15.02.13
A	FOR INFORMATION	S.MCDULLOCH MAY 2012	M.CHAMBERS MAY 2012	N.COOKE MAY 2012
Version	Amendment	Drawn Date	Checked Date	Approved Date

Project: ALMONDBANK FLOOD PROTECTION SCHEME

Drawing Title: FLOOD PROTECTION OPERATIONS CROSS SECTIONS SHEET 7 OF 11



Client: **mouchel** building great relationships

Office: LIVERPOOL

Tel No: (0151) 237-4200

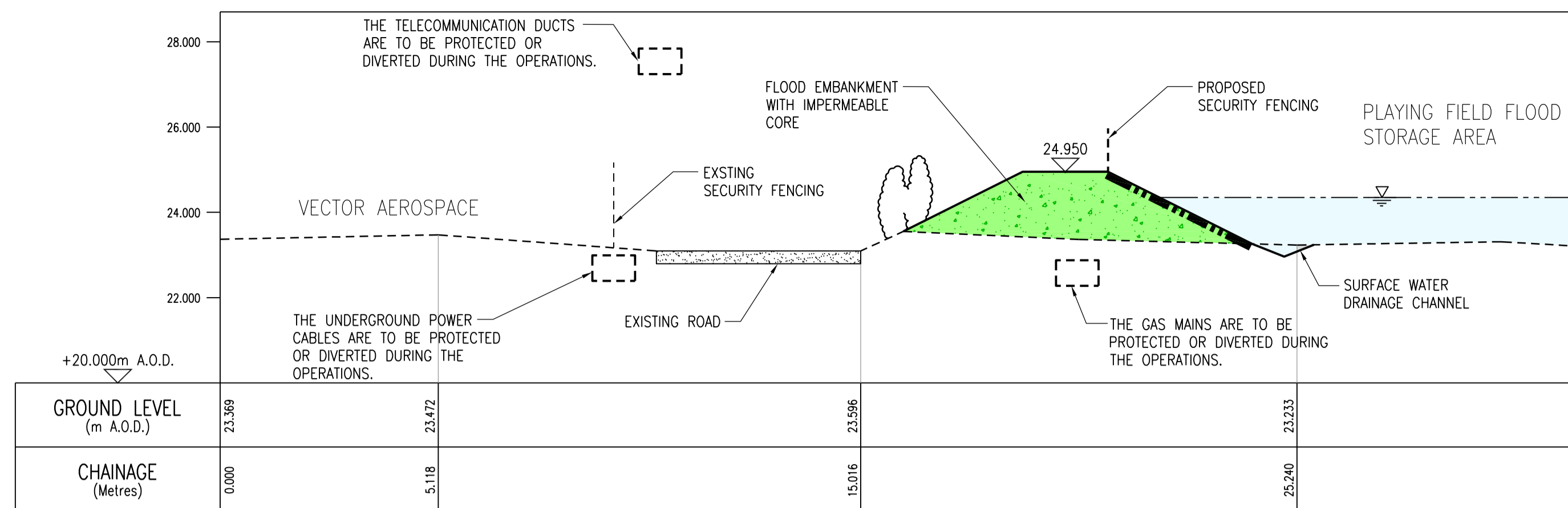
Scale (at A1 size): 1:100

Purpose of Issue: FLOOD PROTECTION OPERATIONS

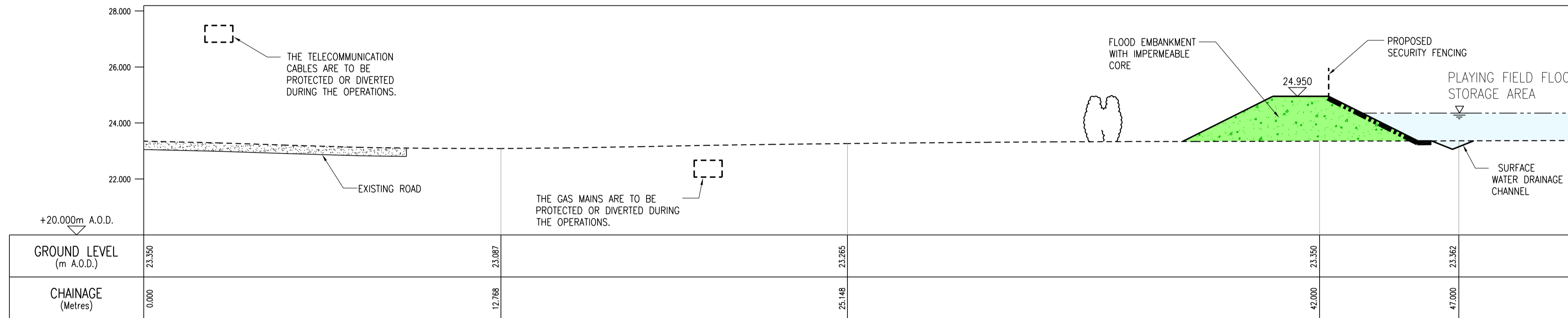
Drawing No: 716516/AF0/308

Version: E

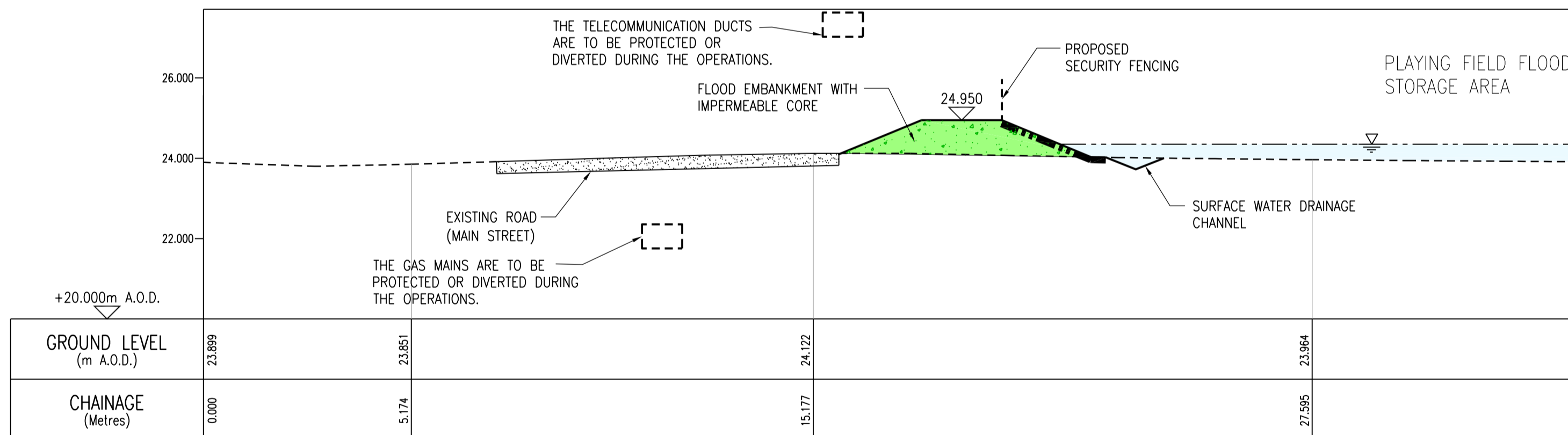




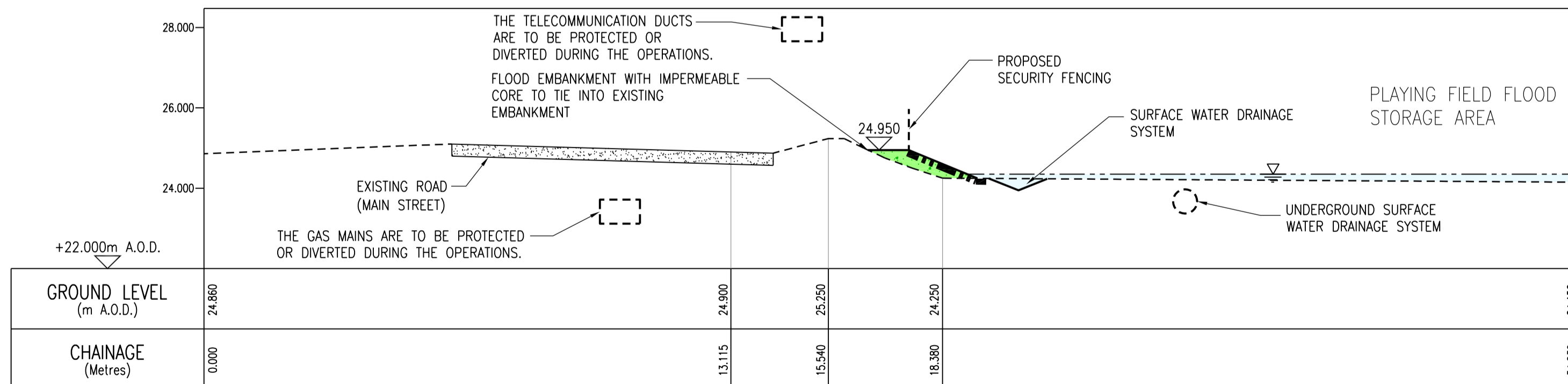
CROSS-SECTION 24-24  
STORAGE AREA EMBANKMENT



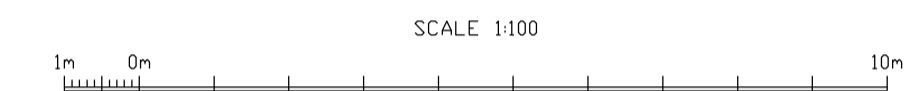
CROSS-SECTION 25-25  
STORAGE AREA EMBANKMENT



CROSS-SECTION 26-26  
STORAGE AREA EMBANKMENT



CROSS-SECTION 27-27  
STORAGE AREA EMBANKMENT



**LEGEND**

- 25.000: PROPOSED FLOOD DEFENCE LEVEL
- : 1 IN 200 YR TWL
- - - - -: EXISTING GROUND LEVEL
- : PROPOSED GROUND LEVEL
- · - · - ·: EROSION PROTECTION
- [Green hatched area]: FLOOD EMBANKMENT WITH IMPERMEABLE CORE
- [L-shaped symbol]: REINFORCED CONCRETE FLOOD WALL CAST WITH A SUITABLE AESTHETIC FINISH
- [Vertical line with hatching]: SHEET PILE WALL WITH CLADDING
- [Vertical line]: SHEET PILE WALL

**DRAWING REFERENCES**

- 716516/AF0/205 - FLOOD PROTECTION OPERATIONS SHEET 6 OF 15 - PLAYING FIELD FLOOD STORAGE AREA
- 716516/AF0/206 - FLOOD PROTECTION OPERATIONS SHEET 7 OF 15 - VECTOR AEROSPACE AND PLAYING FIELD FLOOD STORAGE AREA

THIS IS THE PLAN MARKED **716516/AF0/309** REFERRED TO IN THE FLOOD PROTECTION SCHEME FOR ALMONDBANK FLOOD PROTECTION SCHEME 2013

PROPER OFFICER  
 (Signature)  
 FOR PERTH AND KINROSS COUNCIL  
 (date)

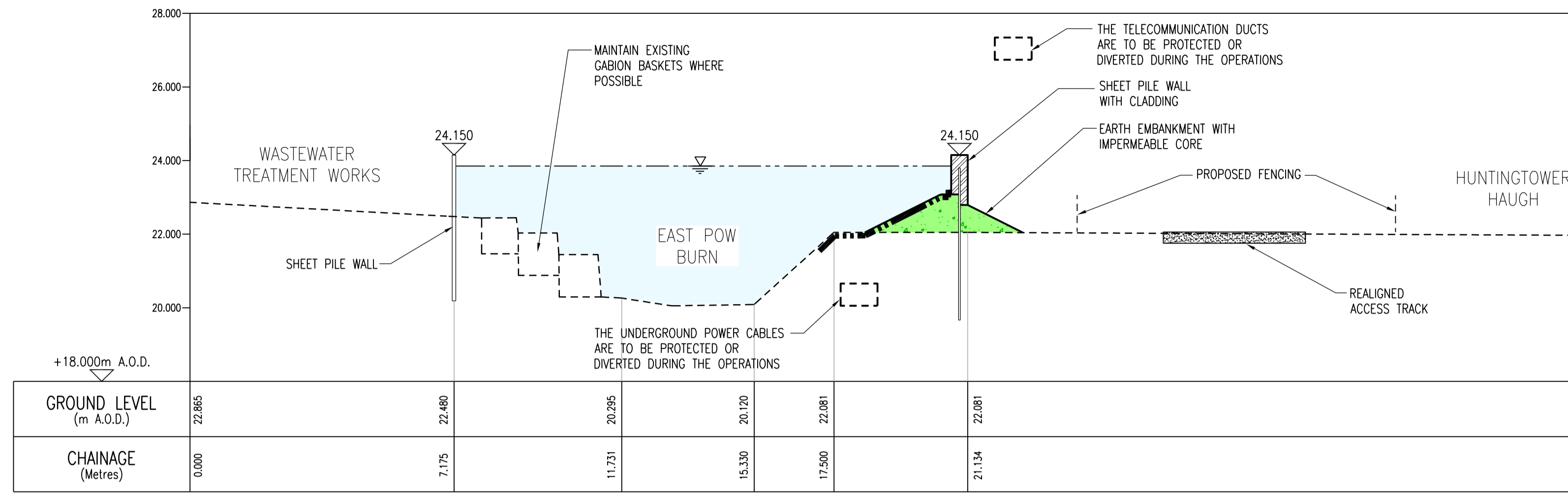
**NOTES**

- THESE PLANS ARE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 60 AND SCHEDULE 2 OF THE FLOOD RISK MANAGEMENT (SCOTLAND) ACT 2009. THESE PLANS ARE TO BE READ IN CONJUNCTION WITH THE ALMONDBANK FLOOD PROTECTION SCHEME 2013.
- OPERATIONS ALONG THE LENGTH OF THE RIVER ALMOND AND THE EAST POW BURN WILL BE FINISHED WITH A SCHEME OF PLANTING AND LANDSCAPING.
- ALL OUTFALLS WHICH DISCHARGE TO THE RIVER ALMOND AND THE EAST POW BURN IDENTIFIED WITHIN THE OPERATIONS, WILL INCORPORATE APPROPRIATE BACK FLOW PREVENTION MEASURES.
- INFORMATION RECEIVED FROM STATUTORY UNDERTAKERS HAS BEEN USED TO IDENTIFY LOCATIONS OF SERVICES, EXACT LOCATIONS OF THESE SERVICES WILL BE DETERMINED DURING DETAILED DESIGN.

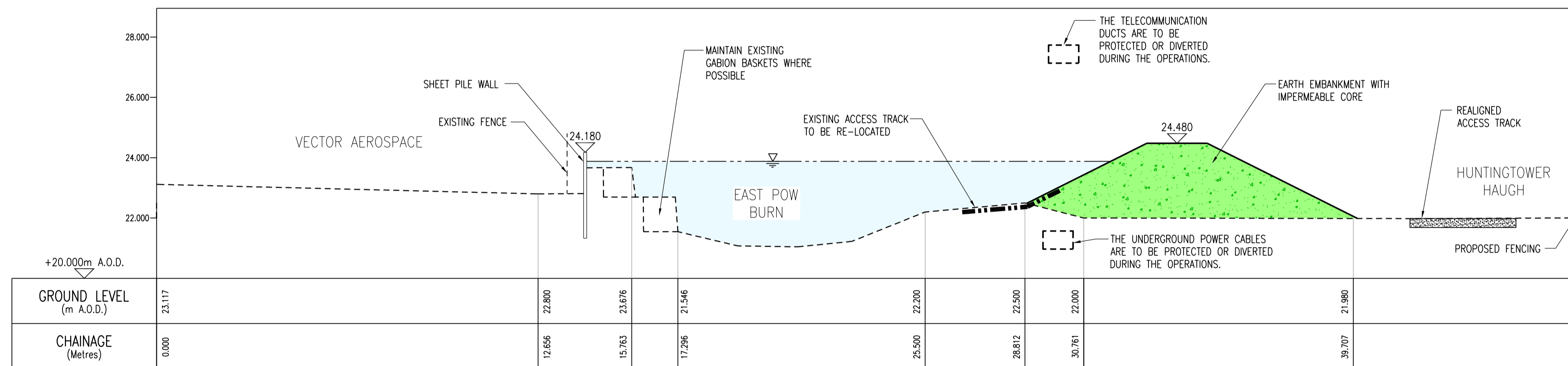
E	CLIENT AMENDMENTS	M.CHAMBERS 28.06.13	P.LAMBERT 28.06.13	N.COOKE 28.06.13
D	CLIENT AMENDMENTS	S.MCDULLOCH 30.05.13	P.LAMBERT 30.05.13	N.COOKE 30.05.13
C	CLIENT AMENDMENTS	S.MCDULLOCH 03.05.13	P.LAMBERT 03.05.13	N.COOKE 03.05.13
B	FOR INFORMATION	M.CHAMBERS 15.02.13	P.LAMBERT 15.02.13	N.COOKE 15.02.13
A	FOR INFORMATION	S.MCDULLOCH MAY 2012	M.CHAMBERS MAY 2012	N.COOKE MAY 2012
Version	Amendment	Drawn Date	Checked Date	Approved Date

Project: ALMONDBANK FLOOD PROTECTION SCHEME  
 Drawing Title: FLOOD PROTECTION OPERATIONS CROSS SECTIONS SHEET 8 OF 11  
 Client: PERTH & KINROSS COUNCIL

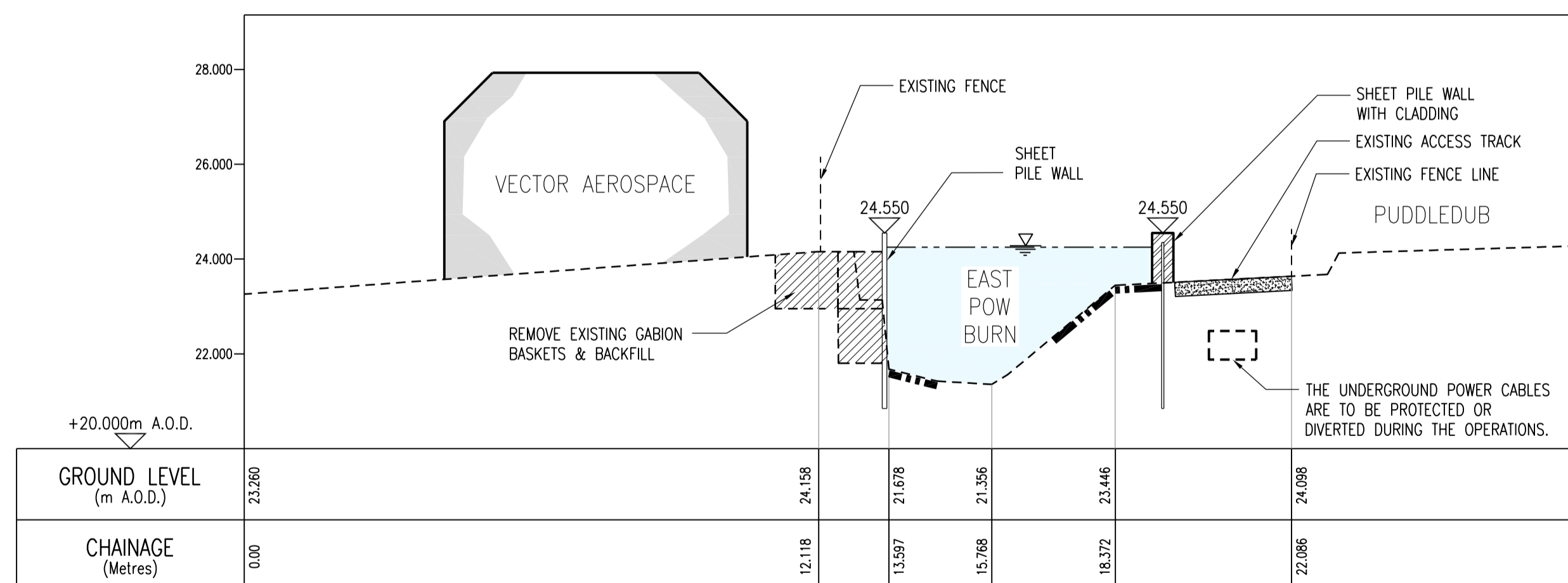
**mouchel** building great relationships  
 Office: LIVERPOOL  
 Tel No: (0151) 237-4200  
 Drawing No: 716516/AF0/309  
 Version: E



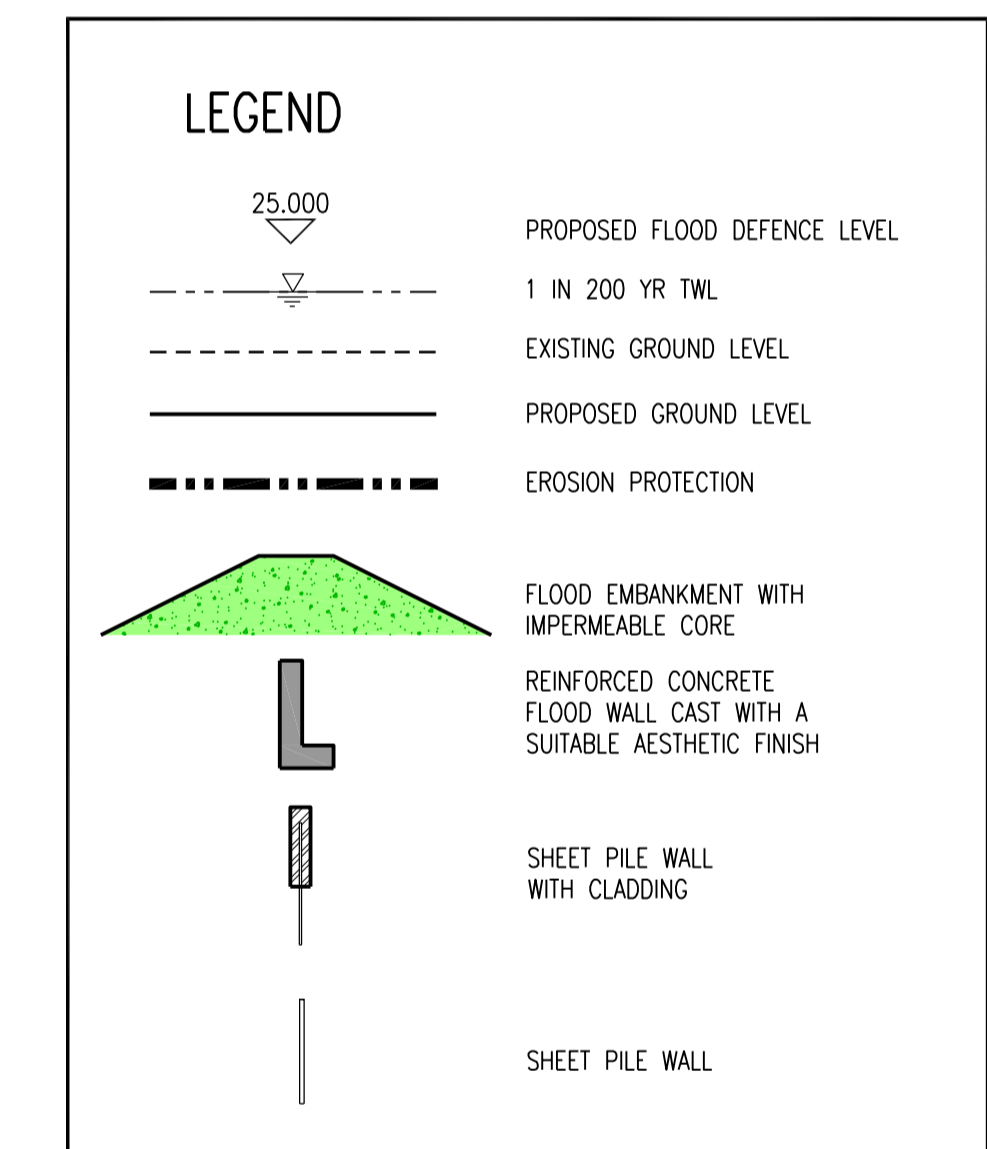
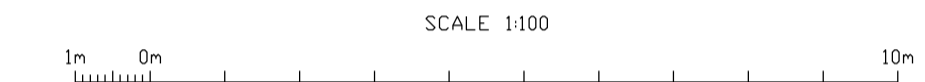
CROSS-SECTION 28-28  
EAST POW BURN



CROSS-SECTION 29-29  
EAST POW BURN



CROSS-SECTION 30-30  
EAST POW BURN



**DRAWING REFERENCES**

716516/AF0/212 - FLOOD PROTECTION OPERATIONS SHEET 11 OF 15 - CONFLUENCE OF RIVER ALMOND & EAST POW BURN

716516/AF0/214 - FLOOD PROTECTION OPERATIONS SHEET 13 OF 15 - VECTOR AEROSPACE

THIS IS THE PLAN MARKED **716516/AF0/310** REFERRED TO IN THE FLOOD PROTECTION SCHEME FOR ALMONDBANK FLOOD PROTECTION SCHEME 2013

PROPER OFFICER  
 (Signature)  
 FOR PERTH AND KINROSS COUNCIL  
 (date)

- NOTES**
- THESE PLANS ARE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 60 AND SCHEDULE 2 OF THE FLOOD RISK MANAGEMENT (SCOTLAND) ACT 2009. THESE PLANS ARE TO BE READ IN CONJUNCTION WITH THE ALMONDBANK FLOOD PROTECTION SCHEME 2013.
  - OPERATIONS ALONG THE LENGTH OF THE RIVER ALMOND AND THE EAST POW BURN WILL BE FINISHED WITH A SCHEME OF PLANTING AND LANDSCAPING.
  - ALL OUTFALLS WHICH DISCHARGE TO THE RIVER ALMOND AND THE EAST POW BURN IDENTIFIED WITHIN THE OPERATIONS, WILL INCORPORATE APPROPRIATE BACK FLOW PREVENTION MEASURES.
  - INFORMATION RECEIVED FROM STATUTORY UNDERTAKERS HAS BEEN USED TO IDENTIFY LOCATIONS OF SERVICES, EXACT LOCATIONS OF THESE SERVICES WILL BE DETERMINED DURING DETAILED DESIGN.

F	CLIENT AMENDMENTS	M.CHAMBERS 28.06.13	P.LAMBERT 28.06.13	N.COOKIE 28.06.13
E	CLIENT AMENDMENTS	S.MCCULLOCH 17.06.13	A.WILLIAMSON 17.06.13	N.COOKIE 17.06.13
D	CLIENT AMENDMENTS	S.MCCULLOCH 29.05.13	P.LAMBERT 29.05.13	N.COOKIE 29.05.13
C	CLIENT AMENDMENTS	S.MCCULLOCH 03.05.13	P.LAMBERT 03.05.13	N.COOKIE 03.05.13
B	FOR INFORMATION	M.CHAMBERS 15.02.13	P.LAMBERT 15.02.13	N.COOKIE 15.02.13
A	FOR INFORMATION	S.MCCULLOCH MAY 2012	S.MCCULLOCH MAY 2012	N.COOKIE MAY 2012
Version	Amendment	Drawn Date	Checked Date	Approved Date

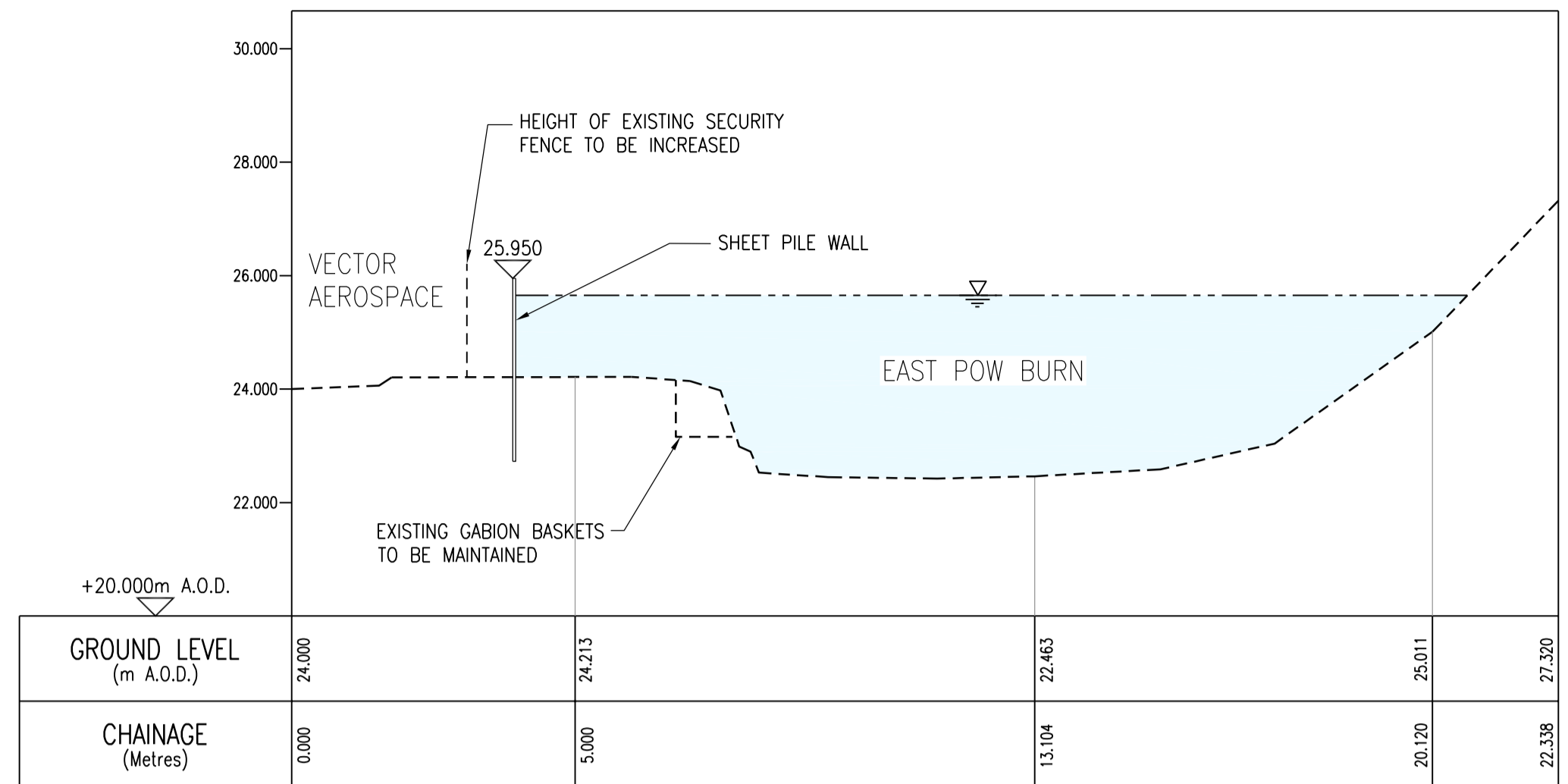
Project: ALMONDBANK FLOOD PROTECTION SCHEME

Drawing Title: FLOOD PROTECTION OPERATIONS CROSS SECTIONS SHEET 9 OF 11

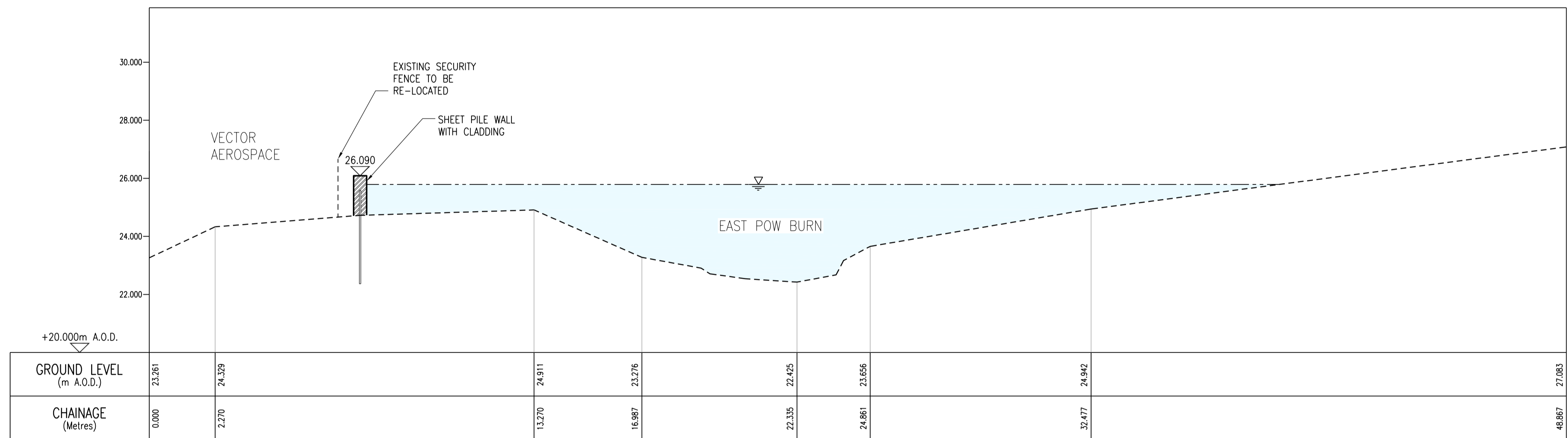
Client: PERTH & KINROSS COUNCIL

**mouchel** building great relationships

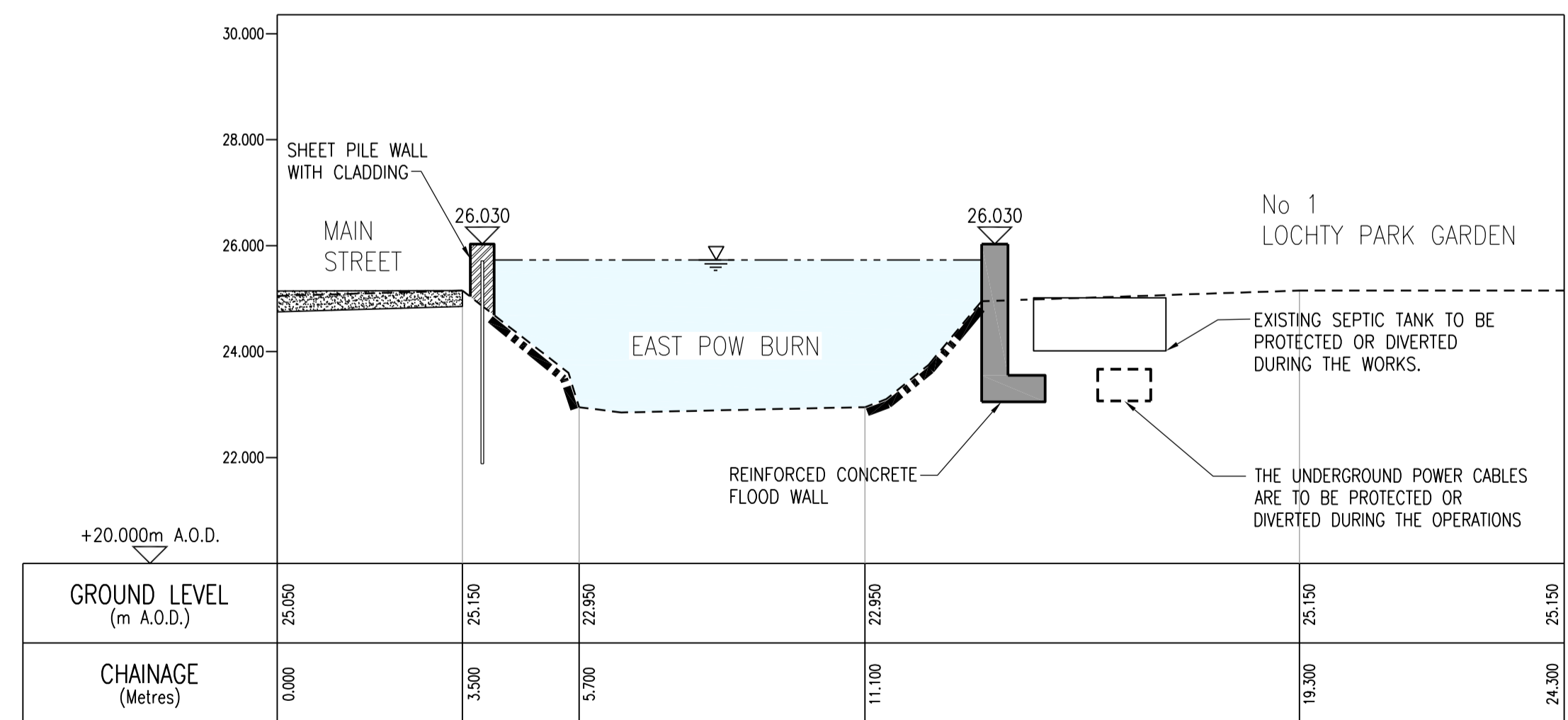
Office: LIVERPOOL | Tel No: (0151) 237-4200 | Drawing No: 716516/AF0/310 | Version: F



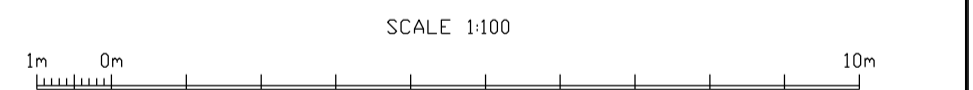
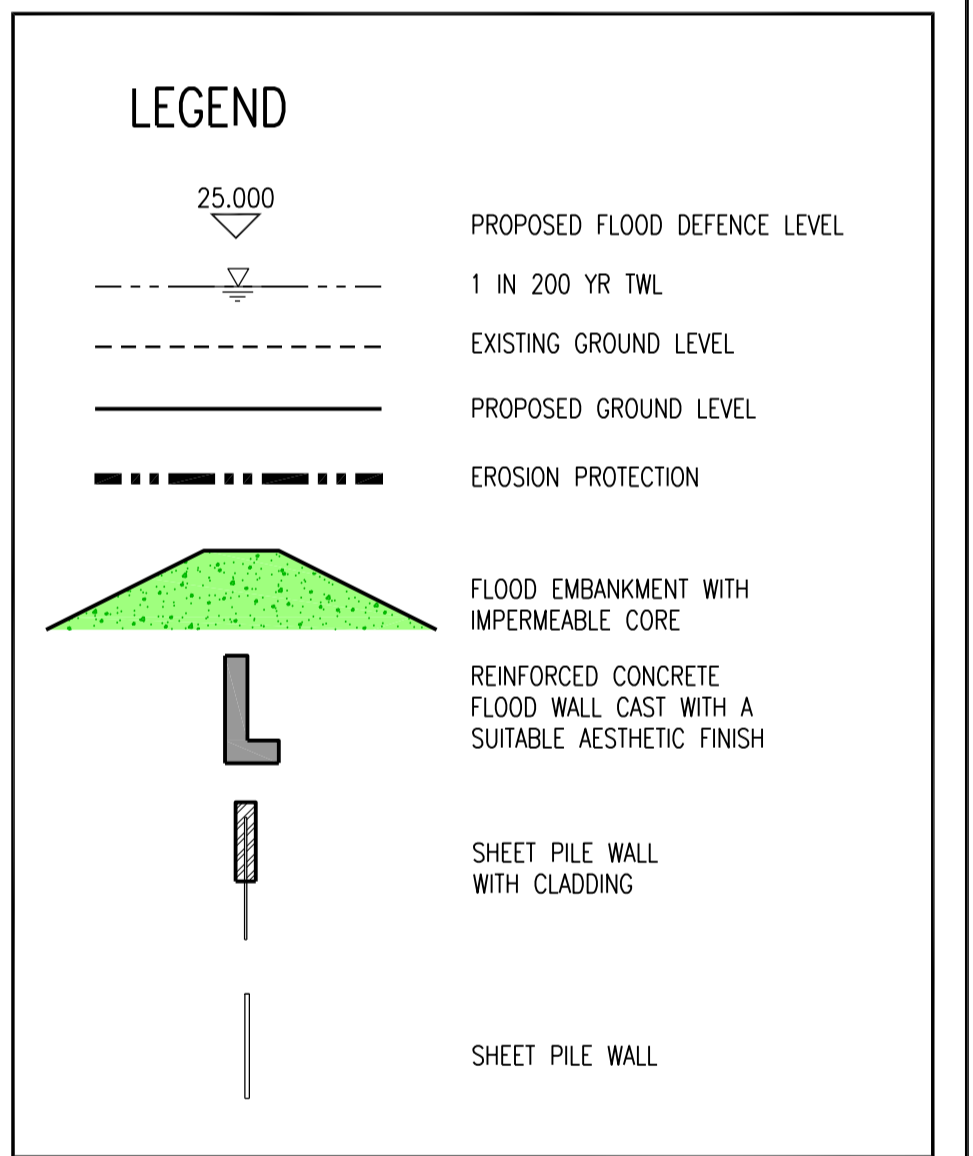
CROSS-SECTION 31-31  
EAST POW BURN



CROSS-SECTION 32-32  
EAST POW BURN



CROSS-SECTION 33-33  
EAST POW BURN



NOTES

- THESE PLANS ARE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 60 AND SCHEDULE 2 OF THE FLOOD RISK MANAGEMENT (SCOTLAND) ACT 2009.
- THESE PLANS ARE TO BE READ IN CONJUNCTION WITH THE ALMONDBANK FLOOD PROTECTION SCHEME 2013.
- OPERATIONS ALONG THE LENGTH OF THE RIVER ALMOND AND THE EAST POW BURN WILL BE FINISHED WITH A SCHEME OF PLANTING AND LANDSCAPING.
- ALL OUTFALLS WHICH DISCHARGE TO THE RIVER ALMOND AND THE EAST POW BURN IDENTIFIED WITHIN THE OPERATIONS, WILL INCORPORATE APPROPRIATE BACK FLOW PREVENTION MEASURES.
- INFORMATION RECEIVED FROM STATUTORY UNDERTAKERS HAS BEEN USED TO IDENTIFY LOCATIONS OF SERVICES, EXACT LOCATIONS OF THESE SERVICES WILL BE DETERMINED DURING DETAILED DESIGN.

E	CLIENT AMENDMENTS	M.CHAMBERS 28.06.13	P.LAMBERT 28.06.13	N.COOKE 28.06.13
D	CLIENT AMENDMENTS	S.MCDULLOCH 30.05.13	P.LAMBERT 30.05.13	N.COOKE 30.05.13
C	CLIENT AMENDMENTS	S.MCDULLOCH 03.05.13	P.LAMBERT 03.05.13	N.COOKE 03.05.13
B	FOR INFORMATION	M.CHAMBERS 15.02.13	P.LAMBERT 15.02.13	N.COOKE 15.02.13
A	FOR INFORMATION	S.MCDULLOCH MAY 2012	M.CHAMBERS MAY 2012	N.COOKE MAY 2012
Version	Amendment	Drawn Date	Checked Date	Approved Date

Project: ALMONDBANK FLOOD PROTECTION SCHEME

Drawing Title: FLOOD PROTECTION OPERATIONS CROSS SECTIONS SHEET 10 OF 11

Client: PERTH & KINROSS COUNCIL

THIS IS THE PLAN MARKED 716516/AF0/311 REFERRED TO IN THE FLOOD PROTECTION SCHEME FOR ALMONDBANK FLOOD PROTECTION SCHEME 2013

PROPER OFFICER  
(Signature)  
FOR PERTH AND KINROSS COUNCIL  
(date)

Scale: 1:100

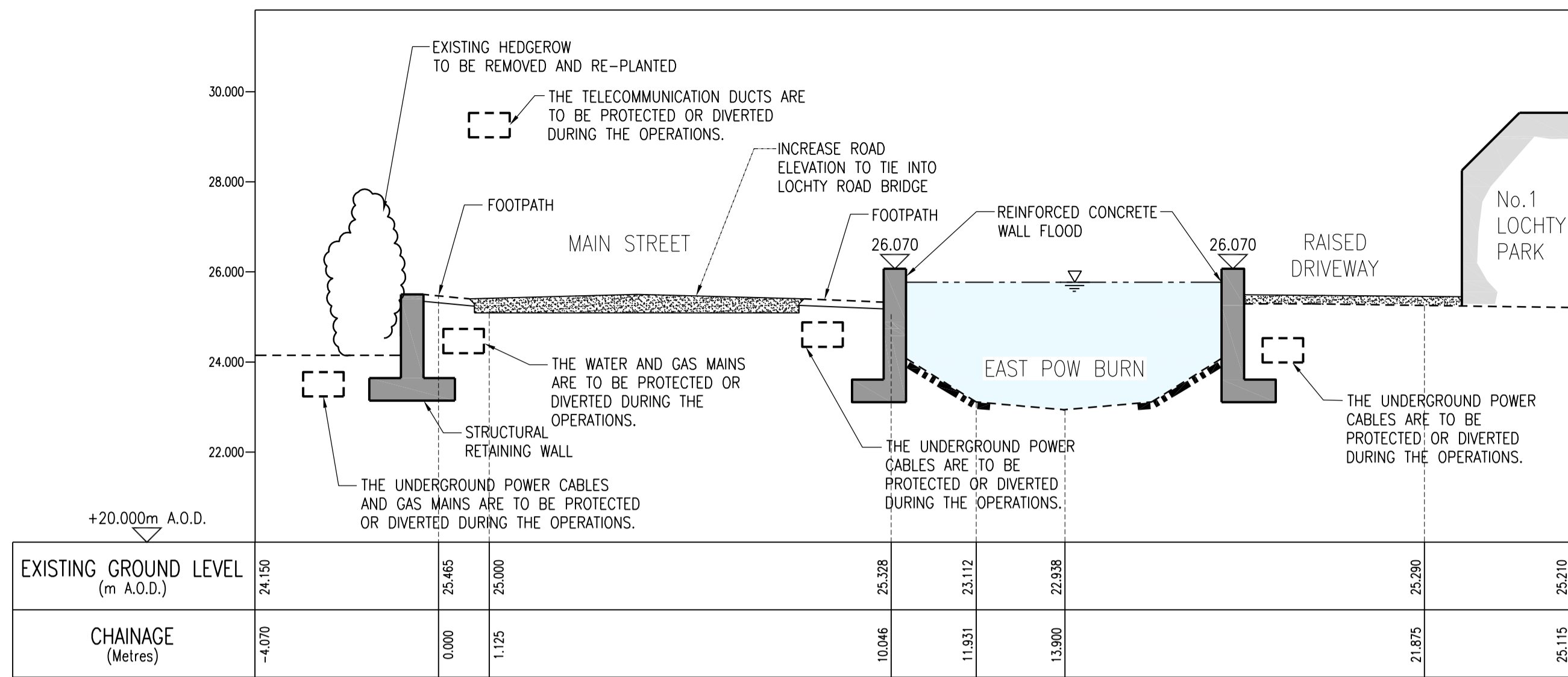
Purpose of Issue: FLOOD PROTECTION OPERATIONS

Office: LIVERPOOL

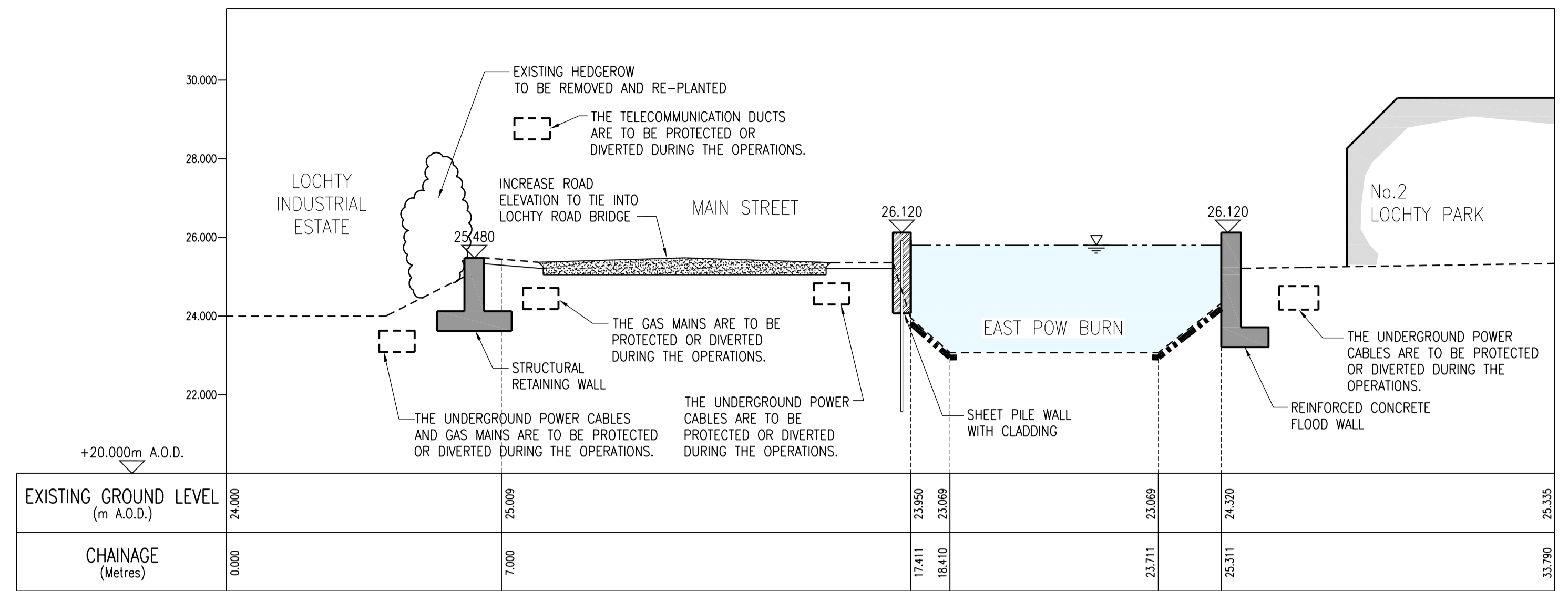
Tel No: (0151) 237-4200

Drawing No: 716516/AF0/311

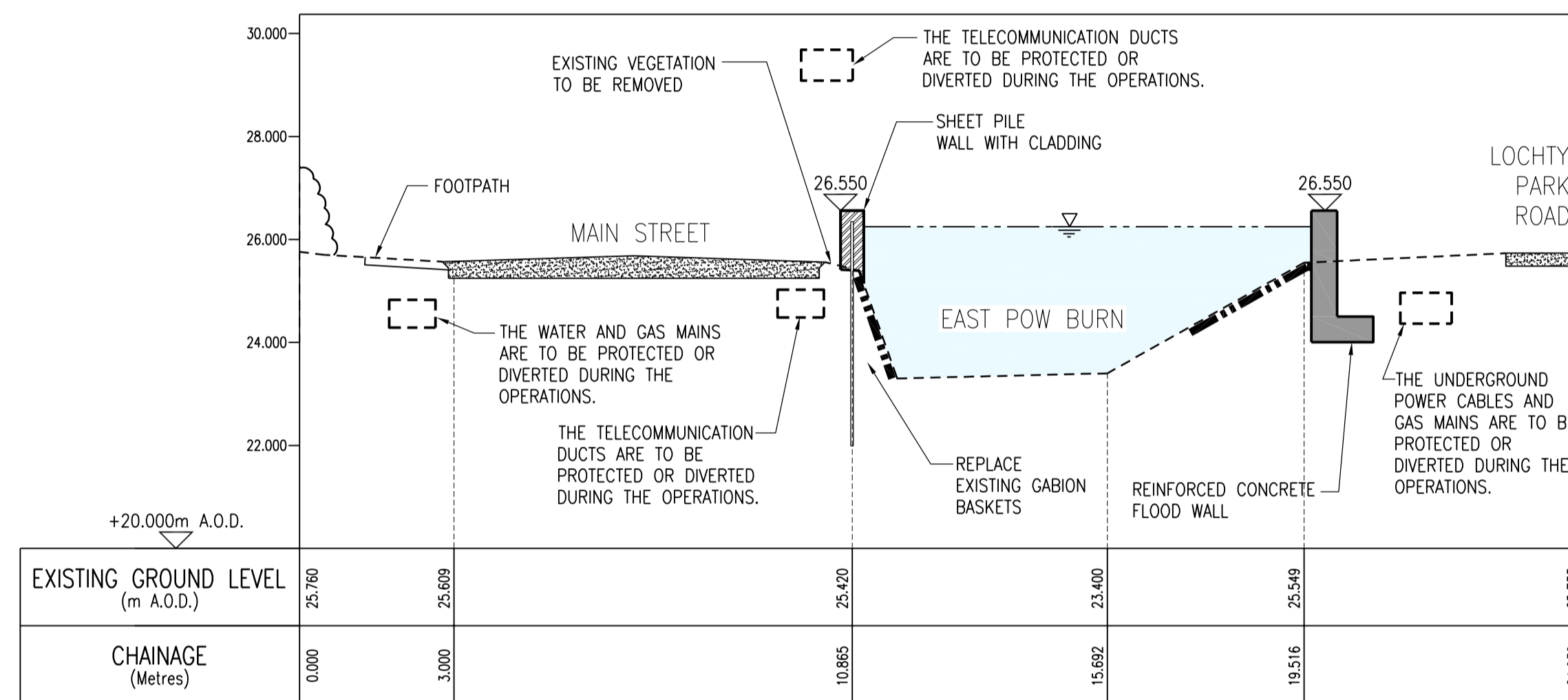
Version: E



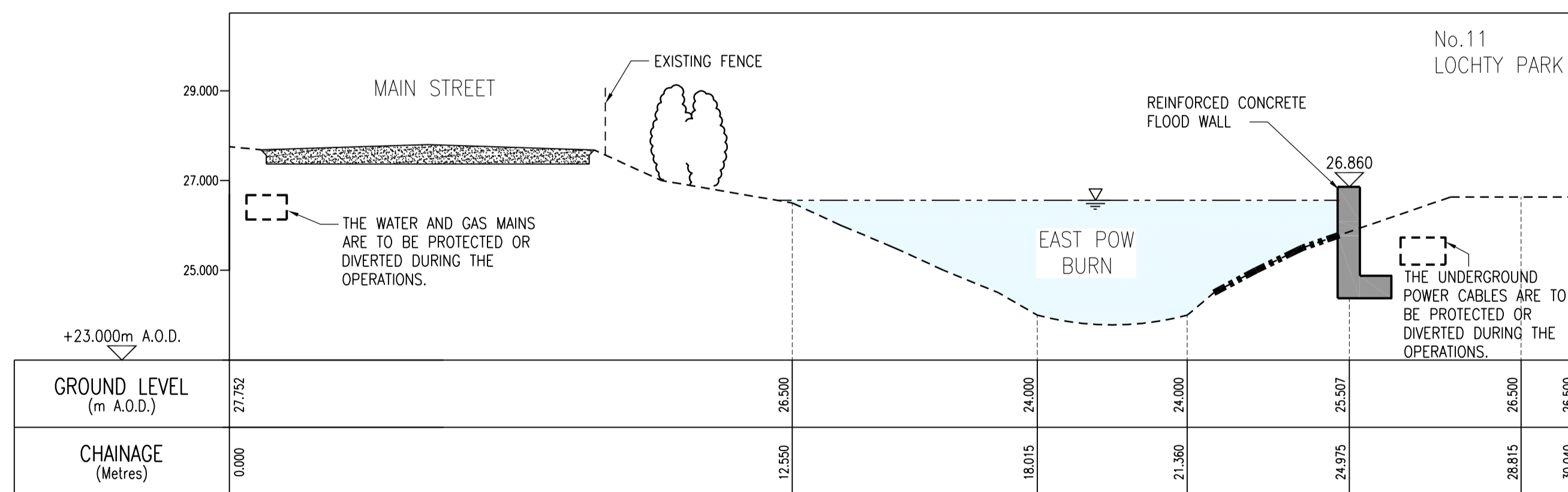
CROSS-SECTION 34-34  
EAST POW BURN



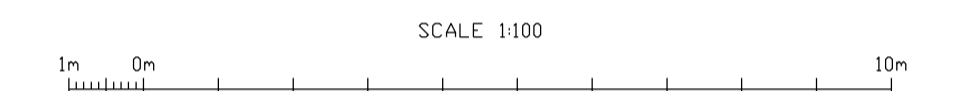
CROSS-SECTION 35-35  
EAST POW BURN



CROSS-SECTION 36-36  
EAST POW BURN



CROSS-SECTION 37-37  
EAST POW BURN



**LEGEND**

- 25.000: PROPOSED FLOOD DEFENCE LEVEL
- 1 IN 200 YR TWL: 1 IN 200 YR TWL
- EXISTING GROUND LEVEL: EXISTING GROUND LEVEL
- PROPOSED GROUND LEVEL: PROPOSED GROUND LEVEL
- EROSION PROTECTION: EROSION PROTECTION
- FLOOD EMBANKMENT WITH IMPERMEABLE CORE: FLOOD EMBANKMENT WITH IMPERMEABLE CORE
- REINFORCED CONCRETE FLOOD WALL CAST WITH A SUITABLE AESTHETIC FINISH: REINFORCED CONCRETE FLOOD WALL CAST WITH A SUITABLE AESTHETIC FINISH
- SHEET PILE WALL WITH CLADDING: SHEET PILE WALL WITH CLADDING
- SHEET PILE WALL: SHEET PILE WALL

**DRAWING REFERENCES**

716516/AFO/215 - FLOOD PROTECTION OPERATIONS SHEET 14 OF 15 - VECTOR AEROSPACE AND LOCHTY PARK  
716516/AFO/216 - FLOOD PROTECTION OPERATIONS SHEET 15 OF 15 - LOCHTY PARK

THIS IS THE PLAN MARKED **716516/AFO/312** REFERRED TO IN THE FLOOD PROTECTION SCHEME FOR ALMONDBANK FLOOD PROTECTION SCHEME 2013

PROPER OFFICER  
(Signature)  
FOR PERTH AND KINROSS COUNCIL  
(date)

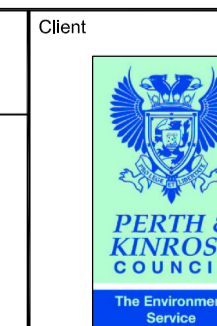
**NOTES**

- THESE PLANS ARE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 60 AND SCHEDULE 2 OF THE FLOOD RISK MANAGEMENT (SCOTLAND) ACT 2009.
- THESE PLANS ARE TO BE READ IN CONJUNCTION WITH THE ALMONDBANK FLOOD PROTECTION SCHEME 2013.
- OPERATIONS ALONG THE LENGTH OF THE RIVER ALMOND AND THE EAST POW BURN WILL BE FINISHED WITH A SCHEME OF PLANTING AND LANDSCAPING.
- ALL OUTFALLS WHICH DISCHARGE TO THE RIVER ALMOND AND THE EAST POW BURN IDENTIFIED WITHIN THE OPERATIONS, WILL INCORPORATE APPROPRIATE BACK FLOW PREVENTION MEASURES.
- INFORMATION RECEIVED FROM STATUTORY UNDERTAKERS HAS BEEN USED TO IDENTIFY LOCATIONS OF SERVICES, EXACT LOCATIONS OF THESE SERVICES WILL BE DETERMINED DURING DETAILED DESIGN.

E	CLIENT AMENDMENTS	M.CHAMBERS 28.06.13	P.LAMBERT 28.06.13	N.COOKIE 28.06.13
D	CLIENT AMENDMENTS	S.MCDULLOCH 29.05.13	P.LAMBERT 29.05.13	N.COOKIE 29.05.13
C	CLIENT AMENDMENTS	S.MCDULLOCH 03.05.13	P.LAMBERT 03.05.13	N.COOKIE 03.05.13
B	FOR INFORMATION	M.CHAMBERS 15.02.13	P.LAMBERT 15.02.13	N.COOKIE 15.02.13
A	FOR INFORMATION	S.MCDULLOCH 12 MAY	M.CHAMBERS 12 MAY	N.COOKIE 12 MAY
Version	Amendment	Drawn Date	Checked Date	Approved Date

Project ALMONDBANK FLOOD PROTECTION SCHEME

Drawing Title **FLOOD PROTECTION OPERATIONS CROSS SECTIONS SHEET 11 OF 11**



**mouchel**  
building great relationships

Office LIVERPOOL  
Tel No (0151) 237-4200

Scales (at A1 size) 1:100  
Purpose of Issue FLOOD PROTECTION OPERATIONS  
Drawing No 716516/AFO/312  
Version E